



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 96722

TO: Sheela Huff
Location: CM1/8B07/8E12
Art Unit: 1642
Sunday, June 22, 2003

Case Serial Number: 830811

From: Mary Jane Ruhl
Location: Biotech-Chem Library
CM1-6A06
Phone: 605-1155

maryjane.ruhl@uspto.gov

Search Notes

WO 0117557

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 08:05:14 ; Search time 1915 Seconds

(Without Alignments)
273.551 Million cell updates/sec

Title: US-09-830-811-1

Perfect score: 18
Sequence: 1 ggcgcgtcttaacagta 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

GenBank: *
1: gb_ba: *
2: gb_htg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
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39: em_htgo_hum: *
40: em_htgo_mus: *
41: em_htgo_other: *

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	2625	6 A83536	A83536 Sequence 1
C 2	18	100.0	2625	6 AX093786	AX093786 Sequence
C 3	18	100.0	2625	6 I34433	I34433 Sequence 57
C 4	18	100.0	2625	6 I46831	I46831 Sequence 51
C 5	18	100.0	2625	6 I55100	I55100 Sequence 57
C 6	18	100.0	2625	6 HUMCA11A	I34056 Homo sapien
C 7	18	100.0	3440	9 BC013609	BC013609 Homo sapi
C 8	18	100.0	3661	9 HUMOSF4A	D21254 Human mRNA
C 9	18	100.0	3712	6 AR034822	AR034822 Sequence
C 10	18	100.0	3712	6 E07382	E07382 cDNA encodl
C 11	18	100.0	3867	9 HUMOSF4B	D21255 Human mRNA
C 12	18	100.0	3914	6 AR034823	AR034823 Sequence
C 13	18	100.0	3914	6 E07383	E07383 cDNA encodl
C 14	18	100.0	153588	9 AC010533	AC010533 Homo sapi
C 15	18	100.0	189894	2 AC068656	AC068656 Homo sapi
C 16	18	100.0	194690	9 AC025763	AC025763 Homo sapi
C 17	16.4	91.1	3180	10 MUSC11	D3163 Mouse mRNA
C 18	16.4	91.1	3489	10 MUSOSF4	D21253 Mouse mRNA
C 19	16.4	91.1	3581	6 AR034821	AR034821 Sequence
C 20	16.4	91.1	3581	6 E07381	E07381 cDNA encodl
C 21	16.4	91.1	4127	6 AX306074	AX306074 Sequence
C 22	16.4	91.1	4127	10 MMCADL	X77557 M. musculus
C 23	16.4	91.1	64849	2 AC113037	AC113037 Mus muscu
C 24	16.4	91.1	106376	9 AL138714	AL138714 Human DNA
C 25	16.4	91.1	118327	9 HSDJ48613	AI050331 Human DNA
C 26	16.4	91.1	163192	2 AC123048	AC123048 Mus muscu
C 27	16.4	91.1	170453	9 AC006600	AC006600 Homo sapi
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C 29	16.4	91.1	176625	9 AC015977	AC015977 Homo sapi
C 30	16.4	91.1	176638	2 AL590312	AL590312 Homo sapi
C 31	16.4	91.1	178549	2 AC109962	AC109962 Rattus no
C 32	16.4	91.1	205594	2 AL353573	AL353573 Homo sapi
C 33	16.4	91.1	207212	2 AL671876	AL671876 Mus muscu
C 34	16	88.9	4520	8 D88669	D88669 Bryopsis cl
C 35	15.4	85.6	345	6 AX144171	AX144171 Sequence
C 36	15.4	85.6	1206	9 AK027308	AK027308 Homo sapi
C 37	15.4	85.6	1522	9 BC001611	BC001611 Homo sapi
C 38	15.4	85.6	1695	10 RNU56936	U56936 Rattus norv
C 39	15.4	85.6	2137	9 AF213969	AF213969 Homo sapi
C 40	15.4	85.6	2210	9 HSA271881	AF271881 Homo sapi
C 41	15.4	85.6	2213	9 AF152604	AF152604 Homo sapi
C 42	15.4	85.6	2307	6 AR116594	AR116594 Sequence
C 43	15.4	85.6	3268	1 AF269352	AF269352 Staphyloc
C 44	15.4	85.6	3268	6 AX144672	AX144672 Sequence
C 45	15.4	85.6	10058	1 AE001050	AE001050 Archaeogl

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	SEQUENCE	DNA	LINEAR	PAT
A83536	A83536	Sequence 1 from Patent WO9849560.	2625 bp			21-JAN-2000
ACCESSION	A83536					
VERSION	A83536.1	GI:6732796				
KEYWORDS						
ORGANISM		unidentified.				
REFERENCE		1 (bases 1 to 2625)				
AUTHORS		Maccalman,C.D. and Stephenson,M.D.				
TITLE		CADHERIN-11 AS AN INDICATOR OF VIABLE PREGNANCY				
JOURNAL		Patent: WO 9849560-A 1 05-NOV-1998;				
		MACCALMAN COLIN D (CA); STEPHENSON MARY D (CA)				

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  185 GCGGCTTGTAAACAGTA 168

Db
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  LOCUS AX093786/c 2625 bp DNA linear PAT 30-MAR-2001
  DEFINITION Sequence 1 from Patent WO0117557.
  VERSION AX093786
  KEYWORDS AX093786.1 GI:13510049
  SOURCE human.
  ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
  REFERENCE
    1 (bases 1 to 2625)
    Brenner, M.B. and Valencia, X.
    Methods and compositions for treatment of inflammatory disease
    using cadherin-11 modulating agents
    Patent: WO 0117557-A 1 15-MAR-2001;
    THE BRIGHAM AND WOMEN'S HOSPITAL, INC. (US)
  TITLE JOURNAL
  FEATURES
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        HERYHANVPERKSNVSVIQVTSADADDPYGSALVLSLEGQYFEVEAQTGILR
        TALPNDRKREKREYHVIQAKDMGNGSGITTKYTILITVDNDPPEPQRLQMS
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        OENAAAGTAVGRYHAKDPDPAANSPIRYSIDRHDDRFITINPESGFTTTPLDRE
        TAVLNTTVAETIHNHROAQPVAIRVDVNDNAKFAPEGFCESDQRPUNO
        PIVTISADKDDTANGPRFTLSLPEITINPNFTVNDNNTAGYARGGTSPKSD
        LITLPIVISDGGIPRMSSTNTLTIKVCGDVNGALISNAEAYILNAGLSTGALAIL
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ORIGIN
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  185 GCGGCTTGTAAACAGTA 168

Db
  185 GCGGCTTGTAAACAGTA 168

RESULT 3
  LOCUS I34433 2625 bp DNA linear PAT 06-FEB-1997
  DEFINITION Sequence 57 from patent US 5597725.
  ACCESSION I34433
  ORIGIN

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VERSION I34433.1 GI:1825224
KEYWORDS
  SOURCE
  ORGANISM
  REFERENCE
    1 (bases 1 to 2625)
    Suzuki, S.
    Cadherin-specific antibodies and hybridoma cell lines
    Patent: US 5597725-A 57 28-JAN-1997;
  TITLE JOURNAL
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Db
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RESULT 4
  LOCUS I46831 2625 bp DNA linear PAT 07-OCT-1997
  DEFINITION Sequence 51 from patent US 5639634.
  ACCESSION I46831
  VERSION I46831.1 GI:2470796
  KEYWORDS
  SOURCE
  ORGANISM
    Unknown.
  REFERENCE
    1 (bases 1 to 2625)
    Suzuki, S.
    Cadherin polynucleotides
    Patent: US 5639634-A 51 17-JUN-1997;
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ORIGIN
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Db
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  LOCUS I55100 2625 bp DNA linear PAT 07-OCT-1997
  DEFINITION Sequence 57 from patent US 5646250.
  ACCESSION I55100
  VERSION I55100.1 GI:2476303
  KEYWORDS
  SOURCE
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  REFERENCE
    1 (bases 1 to 2625)
    Suzuki, S.
    Cadherin polypeptides
    Patent: US 5646250-A 57 08-JUL-1997;
  TITLE JOURNAL
  FEATURES
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      Location/Qualifiers
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 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 185 GCGCGCTTGTAAACAGTA 168

RESULT 6

HUMCALIA/LOCUS 2625 bp mRNA linear PRI 29-JUN-1994
 DEFINITION Homo sapiens cadherin-11 mRNA, complete cds.
 ACCESSION L34056
 VERSION L34056.1 GI:506403
 KEYWORDS cadherin-11.
 SOURCE Homo sapiens fetus brain cDNA to mRNA.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 2625)
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 Tanihara, H., Sano, K., Helmark, R.L., St. John, T. and Suzuki, S.
 Cloning of five cadherins clarifies characteristic features of
 cadherin extracellular domain and provides further evidence for two
 structurally different types of cadherin

JOURNAL Cell Regul. 2 (4), 261-270 (1991)
 MEDLINE 91283540
 PUBMED 2059658

REFERENCE 2 (bases 1 to 2625)
 Tanihara, H., Sano, K., Helmark, R.L., St. John, T. and Suzuki, S.
 Cloning of five cadherins clarifies characteristic features of
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 structurally different types of cadherin

JOURNAL Cell Adhesion Commun. 2, 15-26 (1994)
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 source location/Qualifiers

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 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
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 DB 185 GCGCGCTTGTAAACAGTA 168

RESULT 7

BC013609/c 3440 bp mRNA linear PRI 07-SEP-2001
 LOCUS Homo sapiens, clone MGC:17193 IMAGE:4183901, mRNA, complete cds.
 DEFINITION BC013609
 ACCESSION BC013609
 VERSION BC013609.1 GI:15488965
 KEYWORDS MGC.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 3440)
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 Strausberg, R.
 Direct Submission
 Submitted (04-SEP-2001) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA

REMARK NTH-MGC Project URL: <http://mgc.nci.nih.gov>
 COMMENT Contact: MGC help desk
 Email: cgabs-f@mail.nih.gov
 Tissue Procurement: David N. Louis, M.D.
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Baylor College of Medicine Human Genome
 Sequencing Center
 Center code: BCM-HGSC
 Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
 Contact: villalon@bcm.tmc.edu
 Villalon, D.K., Luna, R.A., Hale, S.M., Huliyk, S., Lu, X., Garcia,
 A.M., Holloway, M., Telford, B., Hodgson, A., Bouck, J., Yu, W.,
 Muzny, D.M., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/HLN at: <http://image.llnl.gov>
 Series: IRAC Plate: 12 Row: 1 Column: 11
 This clone was selected for full length sequencing because it
 passed the following selection criteria: matched mRNA gi: 575577.

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QY 1 GGGCGCTGTAACAGTA 18
 Db 204 GGGCGCTGTAACAGTA 187

RESULT 8
 LOCUS HUMOSF4A 3661 bp mRNA linear PRI 05-FEB-1999
 DEFINITION Human mRNA for OB-cadherin-1, complete cds.
 ACCESSION D21254
 VERSION D21254.1 GI:575577
 KEYWORDS osf-4; OB-cadherin-1.
 SOURCE Homo sapiens new born osteosarcoma CDNA to mRNA, clone:PK01170.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
 AUTHORS Okazaki,M., Takeshita,S., Kawai,S., Kikuno,R., Tsujimura,A.,
 Kudo,A. and Amann,E.
 JOURNAL Molecular cloning and characterization of OB-cadherin, a new member
 MEDLINE of cadherin family expressed in osteoblasts
 REFERENCE J. Biol. Chem. 269 (16), 12092-12098 (1994)
 AUTHORS 94216322
 TITLE 2 (bases 1 to 3661)
 JOURNAL Kikuno,R.
 Direct Submission
 Submitted (21-OCT-1993) Reiko Kikuno, Hoechst Japan Ltd., Pharma
 Research Labs., 1-3-2 Minami-dai, Kawagoe, Saitama 350-11, Japan
 (E-mail:kikunocdd@nig.ac.jp, Tel:0492-43-6149, Fax:0492-43-2479)

FEATURES
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RESULT 9
 ARO34822/c

LOCUS ARO34822 3712 bp DNA linear PAT 29-SEP-1999
 DEFINITION Sequence 3 from patent US 5869638.
 ACCESSION ARO34822
 VERSION ARO34822.1 GI:5950427
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.

REFERENCE
 AUTHORS Takeshita,S., Okazaki,M., Kawai,S., Tsujimura,A. and Amann,E.
 TITLE Bone-related cadherin-like protein and process for its production
 JOURNAL Patent: US 5869638-A 3 09-FEB-1999.
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QY 1 GGGCGCTGTAACAGTA 18
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RESULT 10
 LOCUS E07382/c 3712 bp RNA linear PAT 29-SEP-1997
 DEFINITION cDNA encoding human OSF-4.
 ACCESSION E07382
 VERSION E07382.1 GI:2175521
 KEYWORDS JP 1994122700-A/2.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
 AUTHORS 1 (bases 1 to 3712)
 TITLE Takeshita,A., Okazaki,M., Kawai,S., Tsujimura,A. and Amann,E.
 JOURNAL BONE-RELATED CADHERIN-LIKE PROTEIN AND ITS PRODUCTION
 Patent: JP 1994122700-A 2 06-MAY-1994;
 HOECHST JAPAN LTD
 COMMENT
 OS Homo sapiens (human)
 PN JP 1994122700-A/2
 PD 06-MAY-1994
 PF 13-0UL-1993 JP 1993172883
 PR 28-AUG-1992 JP 92P 230028
 PI TAKESHITA ATSUSHI, OKAZAKI MAKOTO, KAWAI SHINJI, PI
 TSUJIMURA ATSUSHI,
 PI AMAN EGON
 PC C07K13/00,A61K37/02,A61K37/02,A61K39/395,A61K39/395,A61K49/00,
 PC C07K15/14
 PC C12N15/12,C12P21/02,C12P21/08;
 CC strandedness: Double;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
 FH Key
 FT Location/Qualifiers

FT source 1. 3712
 FT /organism="Homo sapiens"
 FT /cell_type="primary bone cancer" FT
 FT 5'UTR 1. 460
 FT CDS 461..2851
 FT /product="Human OSF-4"
 FT 3'UTR 2852..3712.
 FT Location/Qualifiers
 1. 3712
 /organism="Homo sapiens"
 /db_xref="taxon:9606"

BASE COUNT 1074 a 856 c 897 g 885 t

ORIGIN

Query Match	100.0%;	Score 18;	DB 6;	Length 3712;
Best Local Similarity	100.0%;	Pred. No. 37;		
Matches 18; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

```
Qy      1 GCGGCTTGTAAACAGTA 18
         |||||
Db      490 GCGGCTTGTAAACAGTA 473
```

RESULT 11

LOCUS	HUMOSF4B	3867 bp	mRNA	linear	PRI 05-FEB-1999
DEFINITION	Human mRNA for OB-cadherin-2, complete cds.				

VERSION D21255.1 GI:575578
KEYWORDS osf-4; OB-cadherin-2.

SOURCE	Homo sapiens new born osteosarcoma cell line
ORGANISM	Homo sapiens
FEATURES	cdna to mRNA, clone: pXOT161

REFERENCE
1. (slices)
Mammalia; Eutheria; Primates; Catarrhini; Hominae; Homo.
Eukaryota; Metazoa; Chordata; Craniata; Euteleostomi;
Vertebrata; Euteleostomi.

REFERENCE 2 (bases 1 to 3867)

AUTHORS	Kikuno, R.
TITLE	Direct Submission
JOURNAL	Submitted (21-OCT)

FEATURES
Research Labs.: 1-3-2 Minami-dai, Kawagoe, Saitama 350-11, Japan
(E-mail: rtkunoeddbj.nig.ac.jp, Tel:0492-43-6149, Fax:0492-43-2479)
Location/Qualifiers

Source

ORIGIN

Query Match	100.0%;	Score 18;	DB 9;	Length 3867;
Best Local Similarity	100.0%;	Pred. No. 37;		
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Qy      1 GCGGCTGTAACAGTA 18
          |||||
Db      506 GCGGCTGTAACAGTA 489
```

RESULT 12
AR034823/

LOCUS	AR034823	3914 bp	DNA	linear	PAT 29-SEP-1999
DEFINITION	Sequence 5 from patent US 5869638.				
ACCESSION	AB034823				

ACCESSION	RA034823	GI:5950428
VERSION	AR034823.1	
KEYWORDS		
SOURCE	Human	

SOURCE	Unknown
. ORGANISM	Unknown
.	Unclassified

REFERENCE	1 (bases 1 to 3914)
AUTHORS	Takeshita,S., Okazaki,M., Kawai,S., Tsujimura,A. and Amann,E.
TITLE	Bone-related cadherin-like protein and process for its production
JOURNAL	Patent: US 5869638-A 5 09-FEB-1999;
FEATURES	Location/Qualifiers
SOURCE	1..3914

ORIGIN

Query Match	100.0%;	Score 18;	DB 6;	Length 3914;
Best Local Similarity	100.0%;	Pred. NO. 36;		
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	GGCGGCTGTAACAGTA	18
Db	520	GGCGGCTGTAACAGTA	503

RESULT 13

LOCUS	E07383	3914 bp	RNA	linear	PAT 29-SEP-1997
DEFINITION	cDNA encoding human OSF-4.				
ACCESSION	E07383				

ACCESSION	E07383
VERSION	E07383.1
KEYWORDS	GI:2175522
	JP 1994122700-A/3.

SOURCE	ORGANISM
Homo sapiens.	Homo sapiens
Eukaryota; Me	Eukaryota; Me

REFERENCE
1 (bases 1 to 3914)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS Takeshita, A., Okazaki, M., Kawal, S., Tsujimura, A. and Aman, E
TITLE BONE-RELATED CADHERIN-LIKE PROTEIN AND ITS PRODUCTION
JOURNAL Patent: JP 1994122700-A 3 06-MAY-1994;

EH	Key	Location/Qualifiers
EH		
FT	source	1. .3914

FT	/organism='Homo sapiens'	FT
FT	/cell_type='primary binc cancer'	FT
FT	/clone='PKOT170'	

FEATURES

source 1..3914
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 BASE COUNT 1110 a 916 c 944 g 944 t
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 3914;
 Best Local Similarity 100.0%; Pred. No. 36;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTGTAAACAGTA 18
 |||||
 DB 520 GCGCGCTGTAAACAGTA 503

RESULT 14
 AC010533
 LOCUS AC010533
 DEFINITION Homo sapiens chromosome 16 clone RP11-22903, complete sequence.
 AC010533
 KEYWORDS HTG: GI:11386272
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 153588)
 TITLE DOE Joint Genome Institute and Stanford Human Genome Center.
 AUTHORS Direct Submission
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 153588)
 TITLE DOE Joint Genome Institute.
 AUTHORS Direct Submission
 JOURNAL Submitted (15-SEP-1999) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 REFERENCE 3 (bases 1 to 153588)
 TITLE DOE Joint Genome Institute and Stanford Human Genome Center.
 AUTHORS Direct Submission
 JOURNAL Submitted (28-NOV-2000) DOE Joint Genome Institute, 2800 Mitchell
 Drive, Walnut Creek, CA 94598, USA
 COMMENT On Nov 28, 2000 this sequence version replaced gi:9256236.
 Draft Sequence Produced by DOE Joint Genome Institute
 www.jgi.doe.gov
 Finishing Completed at Stanford Human Genome Center
 www.sbgc.stanford.edu
 Quality: Phrap Quality >=40 99.9% of Sequence;
 Estimated Total Number of Errors is 0.5.
 STS Content:
 WT-9802 G05424
 WT-2756 G03521.

FEATURES
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 1..153588
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="16"
 /clone="RP11-22903"
 BASE COUNT 48714 a 29627 c 29013 g 46234 t
 ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 153588;
 Best Local Similarity 100.0%; Pred. No. 12;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTGTAAACAGTA 18
 |||||
 DB 133378 GCGCGCTGTAAACAGTA 133395

RESULT 15
 AC068656
 LOCUS AC068656
 DEFINITION AC068656
 Homo sapiens chromosome 16 clone CTA-186A5, WORKING DRAFT SEQUENCE,
 22 ordered pieces.

AC068656
 AC068656.2 GI:9295747
 HTG: HTGS_PHASE2; HTGS_DRAFT.
 SOURCE
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 189894)
 TITLE DOE Joint Genome Institute.
 AUTHORS Sequencing of Human Chromosome 16
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 189894)
 TITLE DOE Joint Genome Institute.
 AUTHORS Direct Submission
 JOURNAL Submitted (06-MAY-2000) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 On Jul 20, 2000 this sequence version replaced gi:7712105.
 -----Genome Center
 Center: Joint Genome Institute
 Center Code: JGI
 Web site: http://www.jgi.doe.gov

Project Information
 Project Name: 1258011
 Center Project Name: CIT978SKA_186A5
 Center clone name: CIT978SKA_186A5

Summary Statistics
 Consensus quality: 177227 bases at least Q40
 Consensus quality: 185750 bases at least Q30
 Consensus quality: 187169 bases at least Q20
 Estimated insert size: 171860; agarose-gel estimation
 Estimated insert size: 188894; sum-of-contigs estimation
 Quality coverage: 7.12 in Q20 bases; agarose-gel estimation
 Quality coverage: 6.48 in Q20 bases; sum-of-contigs estimation.
 NOTE: This is a "working draft" sequence. It currently
 consists of 22 contigs. Gaps between the contigs
 are represented as runs of N. The order of the pieces
 is believed to be correct as given, however the sizes
 of the gaps between them are based on estimates that have
 been provided by the submitter.
 * This sequence will be replaced
 * by the finished sequence as soon as it is available and
 * the accession number will be preserved.

1
 1852 1951: contig of 1851 bp in length
 1952 3931: contig of 1980 bp in length
 3932 4031: gap of unknown length
 4032 8525: contig of 4494 bp in length
 8526 8625: gap of unknown length
 8626 13024: contig of 4399 bp in length
 13025 13124: gap of unknown length
 13125 14159: contig of 1035 bp in length
 14160 15366: contig of 1677 bp in length
 15367 16036: gap of unknown length
 16037 17770: contig of 1734 bp in length
 17771 17870: gap of unknown length
 17871 18458: contig of 588 bp in length
 18459 18558: gap of unknown length
 18559 34459: contig of 15901 bp in length
 34460 34559: gap of unknown length
 34560 35533: contig of 974 bp in length
 35534 35633: gap of unknown length
 35634 53249: contig of 17616 bp in length
 53250 53349: gap of unknown length
 53350 55979: gap of 2629 bp in length
 55979 56078: gap of unknown length
 56078 85774: contig of 29696 bp in length
 85774 85875: gap of unknown length
 85875 86634: contig of 759 bp in length
 86634 86734: gap of unknown length
 86734 94931: contig of 8198 bp in length
 94931 95031: gap of unknown length

*	950532	95951	contig of 920 bp in length
*	950552	960131	gap of unknown length
*	960652	1383938	contig of 42347 bp in length
*	1383199	1384588	gap of unknown length
*	1384939	1439688	contig of 5470 bp in length
*	1430669	1440658	gap of unknown length
*	1440669	1527688	contig of 8700 bp in length
*	152769	1528688	gap of unknown length
*	152869	153842	contig of 974 bp in length
*	153343	153942	gap of unknown length
*	153343	1666538	contig of 12696 bp in length
*	1666339	1667938	gap of unknown length
*	166739	189894	contig of 23156 bp in length

USE COUNT	59539 a	37380 c	36768 g	54101 t	2106 others
RIGIN					

Query Match	100.0%;	Score 18;	DB 2;	Length 189894;
Best Local Similarity	100.0%;	Pred. No. 11;		
Matches	18;	Conservative	0;	Mismatches
			0;	Indels
				0;
				Gaps
				0;

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QY      1 GCGGCTGTGAACAGTA 18
          |||||
Db      81209 GCGGCTGTGAACAGTA 81226

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Search completed: June 22, 2003, 08:44:00
Job time : 1921 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 08:03:44 ; Search time 236 Seconds

(without alignments)
171.763 Million cell updates/sec

Title: US-09-830-811-1

Perfect score: 18

Sequence: 1 ggcgcgtgtaacacgta 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapept 1.0

Searched: 2185239 seqs, 112599159 residues 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: N_Geneseq-101002.*
2: /SID2/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT.*
3: /SID2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.*
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24: /SID2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
25: /SID2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	18	100.0	18	21	AA53556
2	18	100.0	18	2625	AA785403
3	18	100.0	18	2625	AA761925
4	18	100.0	18	2625	AAV83124
5	18	100.0	18	2625	AA55586
6	18	100.0	18	3712	AA044392
7	18	100.0	18	3867	ABK35485
8	18	100.0	18	3914	AA044393
9	16.4	91.1	3489	22	AA59534

10	16.4	91.1	3581	15	AA044391
11	16.4	91.1	4127	24	AB199752
12	15.4	85.6	302	20	AAV86757
13	15.4	85.6	345	22	AAH53750
14	15.4	85.6	654	24	ABQ58777
15	15.4	85.6	808	22	AAH03710
16	15.4	85.6	880	22	AAK91670
17	15.4	85.6	880	22	AAK93833
18	15.4	85.6	1014	24	ABN90907
19	15.4	85.6	1206	22	AAH15306
20	15.4	85.6	1456	22	AAK94661
21	15.4	85.6	2136	23	ABL60305
22	15.4	85.6	2307	19	AAV92627
23	15.4	85.6	2713	22	AAI93435
24	15.4	85.6	3268	22	AAH54030
25	15.4	85.6	7053	22	AAH52613
26	14.8	82.2	648	24	ABR78301
27	14.8	82.2	1350	24	ABN26266
28	14.8	82.2	1466	24	ABA93939
29	14.8	82.2	1606	21	AAK50109
30	14.8	82.2	4873	22	AAK91400
31	14.8	82.2	9373	23	ABL07020
32	14.8	82.2	12505	23	ABN36377
33	14.4	80.0	60	24	AA554273
34	14.4	80.0	279	21	AA554273
35	14.4	80.0	483	21	AA554272
36	14.4	80.0	483	21	AA554274
37	14.4	80.0	825	21	AAK44203
38	14.4	80.0	1177	21	AAK41747
39	14.4	80.0	1608	21	AAK41747
40	14.4	80.0	2619	24	ABK83735
41	14.4	80.0	349980	21	AAK21610
42	14.4	80.0	143768	21	AAK81490
43	14	77.8	297	24	ABL87175
44	14	77.8	474	22	AAH26610
45	14	77.8	652	22	ABA13441

ALIGNMENTS

RESULT 1
ID AA53556 standard; DNA: 18 BP.
XX AA53556;
AC AA53556;
XX
DT 22-NOV-2000 (first entry)
XX
DE Human cadherin-11 antisense oligonucleotide OB-1.
XX
XX Human: cadherin-11; cad-11; cell differentiation; pregnancy termination;
KW carcinoma; antisense oligonucleotide; ss.
XX
XX Homo sapiens.
XX
PN WO200026236-A2.
XX
PD 11-MAY-2000.
XX
PF 29-OCT-1999; 99MO-CA01057.
XX
PR 30-OCT-1998; 98US-0106258.
XX
PA (UYBR-) UNIV BRITISH COLUMBIA.
XX
PI MacCallan CD;
XX
XX WPI; 2000-365568/31.
XX
XX Increasing or decreasing cad11 expression or function to modulate
PT differentiation or neoplastic transformation of carcinoma cells to
PT treat cancers

XX Claim 11; Page 22; 37pp; English.

XX The present sequence is an antisense oligonucleotide for the human
 CC cadherin-11 (cad-11) mRNA. It can be used to reduce the levels of cad-11
 CC expression in cells, which is useful in the treatment of carcinomas,
 CC particularly prostate tumour cells, for modulating the differentiation
 CC of cells, and in the prevention or termination of pregnancy. It is
 CC particularly useful for preventing metastasis of tumour cells.

SO Sequence 18 BP; 5 A; 3 C; 6 G; 4 T; 0 other;

Query Match

Best Local Similarity 100.0%; Score 18; DB 21; Length 18;

Matches 18; Conservativity 100.0%; Pred. No. 2; Mismatches 0; Indels 0; Gaps 0;

DB 1 GGGCGCTGTAAACAGTA 18
 1 GGGCGCTGTAAACAGTA 18

RESULT 2

AA85403/C

ID AAT85403 standard; CDNA; 2625 BP.

AC AAT85403;

DT 03-NOV-1997 (first entry)

DE Human cadherin-11 coding sequence.

KW Human; cadherin; rat; calcium-dependent cell adhesion protein;
 KW superfamily; cytoskeleton; eatenin; cancer; ss.

OS Homo sapiens.

FT Key Location/Qualifiers
 FT CDS 156..2546
 /*tag= a
 /product= Cadherin-11

US5646250-A.

08-JUL-1997.

17-APR-1992; 92US-0872643.

19-APR-1993; 93US-0049460.

17-APR-1992; 92US-0872643.

01-NOV-1994; 94US-0332638.

(DOHE-) DOHENY EYE INST.

Suzuki S;

WPI; 1997-362997/33.

Human and rat cadherin polypeptide(s) - mediate cell-cell adhesion
 Example 2; Column 87-90; 56pp; English.

This sequence encodes human cadherin-11. The invention specifically
 provides details of human cadherin-5, -8, -11, -12 and -13, and rat
 cadherin-8, -5, -11 and -13. Cadherins are calcium-dependent cell
 adhesion proteins. They are glycosylated integral membrane proteins
 that have an N-terminal extracellular domain that determines binding
 specificity, a hydrophobic membrane spanning region and a C-terminal
 cytoplasmic domain, which is highly conserved among members of the
 superfamily. The C-terminal domain interacts with the cytoskeleton
 through eatenin and other cytoskeleton-associated proteins. The
 novel cadherin proteins may be used in the analysis of the role of
 cadherins in various cancers. Sequence analysis of the cadherin
 proteins also allows investigation of the structure and function of

CC cadherin. The cadherin proteins may be isolated by using anti-cadherin
 CC antibodies. These antibodies may also be used to modulate the activity
 CC of cadherin and to determine the tissue specific distribution of cadherin
 CC proteins. Each subclass of cadherins has a unique tissue distribution
 CC pattern.

SO Sequence 2625 BP; 730 A; 661 C; 675 G; 559 T; 0 other;

Query Match

Best Local Similarity 100.0%; Score 18; DB 18; Length 2625;

Matches 18; Conservativity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;

DB 1 GGGCGCTGTAAACAGTA 18
 185 GGGCGCTGTAAACAGTA 168

RESULT 3

AAT61925/C

ID AAT61925 standard; CDNA; 2625 BP.

AC AAT61925;

DT 14-MAY-1997 (first entry)

DE Full length human cadherin-11 cDNA.

KW Ca2+ dependent; cell adhesion protein; foetal; cadherin; rat;
 KW brain; human; antibody; purification; determination;
 KW tissue expression; binding antagonist; calcium ion; ss.

OS Homo sapiens.

FT Key Location/Qualifiers
 FT CDS 156..2546
 /*tag= a

US597725-A.

28-JAN-1997.

17-APR-1992; 92US-0872643.

26-JAN-1994; 94US-0188228.

17-APR-1992; 92US-0872643.

19-APR-1993; 93US-0049460.

(DOHE-) DOHENY EYE INST.

Suzuki S;

WPI; 1997-108328/10.

P-P-SDB; AAW13134.
 Antibodies to cadherin proteins - useful as cadherin antagonists,
 etc.
 Example 2; Columns 91-96; 59pp; English.

The present sequence encodes full length human cadherin-11, which
 is a Ca2+ dependent cell adhesion protein. The human cadherin cDNA
 was isolated from a foetal brain cDNA library, using probes based
 on homologous rat cadherin cDNA. Antibodies or fragments that specifically bind the human cadherin
 can be used to purify the cadherin, determine its tissue expression
 and antagonise its ligand/antiligand binding activities.

SO Sequence 2625 BP; 730 A; 661 C; 675 G; 559 T; 0 other;

Query Match

Best Local Similarity 100.0%; Score 18; DB 18; Length 2625;

Matches 18; Conservativity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGGCGCTTGTAAACAGTA 18
 |||||||
 DB 185 GCGGCGCTTGTAAACAGTA 168

RESULT 4

AAV83124/c
 ID AAV83124 standard; cDNA; 2625 BP.

XX
 AC AAV83124;

XX 02-MAR-1999 (first entry)

XX Cadherin-11 cDNA.

XX Cadherin: morphogenesis; calcium-dependent cell adhesion; pregnancy;

KW endometrium; trophoblast; blastocyst; infertility; ss.

XX Homo sapiens.

FT Key Location/Qualifiers
 CDS 155..2546
 /*tag= a
 /product= Cadherin-11

XX MO9849560-A1.

XX 05-NOV-1998.

XX 24-APR-1998; 98MO-CA00397.

XX 25-APR-1997; 97CA-2203718.

XX (UYBR-) UNIV BRITISH COLUMBIA.

XX MacCallman CD, Stephenson MD;

XX WPI: 1999-024071/02.

XX P-PSDB; AAW85598.

XX Assessing likelihood of successful pregnancy by measuring levels of
 PT cadherin-11 in endometrium - also diagnosis of infertility from low
 PT cadherin levels and increasing cadherin levels by administering
 PT prostin or cadherin-encoding DNA

XX Claim 7, Page 52-53; 63pp; English.

XX The likelihood of establishing and maintaining a pregnancy, blastocyst
 CC implantation or endometrial receptivity are determined by measuring the
 CC level of cadherin-11 mRNA or protein in endometrial cells. A level below
 CC a standard value indicates inability to establish or maintain pregnancy.
 CC Women who are identified as having low level expression of
 CC cadherin-11 in endometrial cells can then be treated with a genetic
 CC construct comprising the cadherin-11 cDNA. The expression of
 CC cadherin-11 from the construct increases fertility and lessens the
 CC likelihood of miscarriage.
 CC Cadherin-11 expression is a better predictor of endometrial response
 CC and receptiveness than conventional analysis of endometrial cell
 CC morphology.

XX Sequence 2625 BP; 730 A; 661 C; 675 G; 559 T; 0 other;

XX Query Match 100.0%; Score 18; DB 20; Length 2625;

XX Best Local Similarity 100.0%; Pred. No. 3.4;

XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCGGCGCTTGTAAACAGTA 18
 |||||||
 DB 185 GCGGCGCTTGTAAACAGTA 168

RESULT 5
 AAF55586/c

ID AAF55586 standard; DNA; 2625 BP.
 XX
 AC AAF55586;

XX 29-MAY-2001 (first entry)

XX Nucleotide sequence of a human cadherin-11 polypeptide.

XX Human: cadherin-11; inflammatory joint disorder; chronic synovitis;

KW autoimmune disorder; rheumatoid arthritis; arthritis; ss.

XX Homo sapiens.

FT Key Location/Qualifiers
 CDS 156..2546
 /*tag= a
 /product= "cadherin-11"

XX MO200117557-A1.

XX 15-MAR-2001.

XX 01-SEP-2000; 2000MO-US24101.

XX 03-SEP-1999; 99US-0152456.

XX 13-SEP-1999; 99US-0153480.

XX (BGHM) BRIGHAM & WOMENS HOSPITAL INC.

XX Brenner MB, Valencia X;

XX WPI: 2001-235163/24.

XX P-PSDB; AAB67624.

XX Treating inflammatory joint disorders, e.g. chronic synovitis,
 PT autoimmune disorders and rheumatoid arthritis, comprises administering
 PT a cadherin-11 inhibitor that inhibits the binding of cadherin-11 to its
 PT counter receptor
 XX
 XX Disclosure; Page 78-82; 89pp; English.

XX The present sequence encodes a human cadherin-11 polypeptide.
 CC Cadherin-11 is a transmembrane molecule that, inter alia, mediates
 CC binding of cells to each other through interaction with itself or its
 CC counter-receptors. Agents which inhibit cadherin-11, or which inhibit
 CC the binding of cadherin-11 to a cadherin-11 counter receptor are used
 CC to treat a subject having an inflammatory joint disorder. The method is
 CC useful for treating inflammatory joint disorders, e.g. chronic synovitis,
 CC autoimmune disorders, rheumatoid arthritis, Lyme disease arthritis,
 CC arthritis associated with inflammatory bowel disease or with ankylosing
 CC spondylitis, Reiter's syndrome, or arthritis associated with systemic
 CC lupus erythematosus. The method may also be used for the rational drug
 CC design of new agents capable of modulating an immune system response.
 CC The nucleotide and amino acid sequences of cadherin-11 modulating agents
 CC may be used in computer-based modelling systems to predict the secondary
 CC and tertiary structure of the extracellular domain, and to target a
 CC toxin or a detectable agent to cells which express cadherin-11
 CC counter-receptors or cadherin-11. The antibodies inhibiting the binding
 CC of cadherin-11 to its counter receptor may be used in screening assays
 CC for identifying pharmaceutical lead compounds in molecular libraries.

XX Sequence 2625 BP; 730 A; 661 C; 675 G; 559 T; 0 other;

XX Query Match 100.0%; Score 18; DB 22; Length 2625;

XX Best Local Similarity 100.0%; Pred. No. 3.4;

XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCGGCGCTTGTAAACAGTA 18
 |||||||
 DB 185 GCGGCGCTTGTAAACAGTA 168

RESULT 6

AA044392/C
 ID AA044392 standard; cDNA to mRNA; 3712 BP.
 AC AA044392;
 XX
 XX
 DT 14-SEP-1994 (first entry)
 XX
 DE Sequence of human OSF-4-1 cDNA.
 XX
 KW OSF-4-1; cadherin; growth factor; osteogenesis; osteoblast; therapy;
 KW diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 461..2851
 FT /*tag= a
 XX
 XX EP585801-A.
 XX
 XX 09-MAR-1994.
 XX
 XX 25-AUG-1993; 93EP-0113602.
 XX
 XX 28-AUG-1992; 92JP-0230028.
 XX
 XX (FARK) HOECHST JAPAN LTD.
 XX
 XX
 PI Amann E, Kawai S, Okazaki M, Takeshita S, Tsujimura A;
 XX
 DR WPI; 1994-076152/10.
 DR P-PSDB; AAR49731.
 XX
 PT New bone related, cadherin-like OSF-4 proteins - for treatment
 PT and diagnosis of bone metabolic disease, and nucleic acid
 PT encoding them
 XX
 PS Claim 3; Page 18-22; 34pp; English.
 XX
 CC cDNA libraries were constructed from the mouse osteoblastic cell
 CC line MC3T3-E1 and from mouse liver tissue, amplified by PCR, and
 CC then as much common DNA as possible removed by hybridisation between
 CC the 2 libraries. Residual E1-specific DNA was amplified, inserted
 CC into lambda gt10 and screened by plaque hybridisation. A minilink of
 CC 273 E-specific clones was recovered, their inserts amplified and
 CC used to screen total RNA from both cell types. One clone specific
 CC for E1 was identified and sequenced. The insert from this specific
 CC used to screen cDNA prep. from E1 RNA and the longest posn. insert
 CC cloned in pEM 112f (+) to give pKOT164. This insert was sequenced;
 CC it encoded the 796 AA mouse precursor protein (AA044391/R49730). The
 CC insert was also used to screen a cDNA bank prep. from human
 CC osteosarcoma to identify 2 clones encoding the 2 human precursor
 CC proteins - OSF-4-1 and OSF-4-2 (AA044392/R49731 and AA044393/R49732
 CC respectively).
 XX
 SQ Sequence 3712 BP; 1074 A; 856 C; 897 G; 885 T; 0 other;
 XX
 Query Match 100.0%; Score 18; DB 15; Length 3712;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCGGCTTGTAAACAGTA 18
 DB 490 GCGGCTTGTAAACAGTA 473
 XX
 RESULT 7
 ABR35485/C
 ID ABR35485 standard; DNA; 3867 BP.
 AC ABR35485;
 XX
 XX
 DT 08-MAY-2002 (first entry)

XX
 DE Human endometrial cancer related gene, CDH11.
 DE
 KW Human; ds; gene; endometrial cancer; differential expression;
 KW DNA microarray; protein microarray.
 XX
 XX
 OS Homo sapiens.
 XX
 PN W0200209573-A2.
 XX
 PD 07-FEB-2002.
 XX
 PE 31-JUL-2001; 2001MO-US24104.
 XX
 PR 31-JUL-2000; 2000US-221735P.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL INC.
 XX
 PI Mutter GL;
 XX
 DR WPI; 2002-179967/23.
 DR P-PSDB; AA084265.
 XX
 XX
 PT Diagnosing endometrial cancer comprises determining expression of
 PT nucleic acid molecules or expression products that are differentially
 PT expressed in normal and malignant endometrium -
 XX
 PS Claim 1; Page 45-47; 233pp; English.
 XX
 CC The invention relates to diagnosing endometrial cancer in a subject
 CC suspected of having endometrial cancer comprising determining the
 CC expression of a set of nucleic acid molecules or expression products in
 CC an endometrial sample suspected of being cancerous, where the set of
 CC nucleic acid molecules comprises at least 2 nucleic acid molecules
 CC selected from 50 fully defined sequences as given in the specification.
 CC The nucleic acids are used as an array of at least 2 of the 50
 CC nucleic acids bound to a solid substrate. Also included is a solid-phase
 CC protein microarray comprising at least 2 antibodies or its antigen
 CC binding fragments, that specifically bind at least 2 different
 CC polypeptides from the 50 fully defined sequences as given in the
 CC specification, fixed to a solid substrate. The methods and arrays are
 CC useful for the diagnosis of endometrial cancer, selecting and monitoring
 CC treatment regimes and identification of lead compounds useful for the
 CC treatment of endometrial cancer. The present sequence is one of 50
 CC genes differentially expressed between cancerous and non-cancerous
 CC samples.
 XX
 SQ Sequence 3867 BP; 1098 A; 905 C; 932 G; 932 T; 0 other;
 XX
 Query Match 100.0%; Score 18; DB 24; Length 3867;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCGGCTTGTAAACAGTA 18
 DB 506 GCGGCTTGTAAACAGTA 489
 XX
 RESULT 8
 AA044393/C
 ID AA044393 standard; cDNA to mRNA; 3914 BP.
 AC AA044393;
 XX
 XX
 DT 14-SEP-1994 (first entry)
 XX
 DE Sequence of human OSF-4-2 cDNA.
 XX
 KW OSF-4-2; cadherin; growth factor; osteogenesis; osteoblast; therapy;
 KW diagnosis; ss.
 XX
 OS Homo sapiens.
 XX

FH Key Location/Qualifiers
 FT CDS 491..2569
 FT /*tag- a
 XX
 PN EP585801-A.
 XX
 PD 09-MAR-1994.
 XX
 PF 25-AUG-1993; 93EP-0113602.
 XX
 PR 28-AUG-1992; 92JP-0230028.
 XX
 PA (FARH) HOECHST JAPAN LTD.
 XX
 PI Amann E, Kawal S, Okazaki M, Takeshita S, Tsujimura A;
 XX
 DR WPI; 1994-076152/10.
 DR P-PSDB; AAR49732.
 XX
 XX New bone related, cadherin-like OSF-4 proteins - for treatment
 XX and diagnosis of bone metabolic disease, and nucleic acid
 XX encoding them
 PS
 PS Claim 3; Page 23-27; 34pp; English.
 XX
 CC CDNA libraries were constructed from the mouse osteoblastic cell
 CC line MC3T3-E1 and from mouse liver tissue, amplified by PCR, and
 CC then as much common DNA as possible removed by hybridisation between
 CC the 2 libraries. Residual E1-specific DNA was amplified, inserted
 CC into lambda gt10 and screened by plaque hybridisation. A miniprep of
 CC 273 E-specific clones was recovered, their inserts amplified and
 CC used to screen total RNA from both cell types. One clone specific
 CC for E1 was identified and sequenced. The insert from this clone was
 CC used to screen CDNA prep. from E1 RNA and the longest posn. insert
 CC cloned in pEM 112f (-) to give pKOT164. This insert was sequenced;
 CC it encoded the 796 AA mouse precursor protein (AA044391/R49730). The
 CC insert was also used to screen a CDNA bank prep. from human
 CC osteosarcoma to identify 2 clones encoding the 2 human precursor
 CC proteins - OSF-4-1 and OSF-4-2 (AA044392/R49731 and AA044393/R49732
 CC respectively).
 XX
 SQ Sequence 3914 BP; 1105 A; 920 C; 947 G; 942 T; 0 other;
 XX
 Query Match 100.0%; Score 18; DB 15; Length 3914;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1 GGGCGGCTTGTAAACAGTA 18
 ID ||||||||||||||||
 ID AAF59534 standard; CDNA; 3489 BP.
 XX
 AC AAF59534;
 XX
 DT 24-APR-2001 (first entry)
 XX
 DE cDNA encoding a mouse PrP-binding protein, OB-cadherin-1.
 XX
 KM Mouse OB-cadherin-1; murine; prion protein binding protein; PrPBP;
 KM detectable PrP fusion protein; detection; diagnosis; B lymphocyte;
 KM PrP-Sc-associated disorder; prion disease; Creutzfeldt-Jakob disease;
 KM CJD; Kuru; fatal familial insomnia; scrapie; BSE;
 KM bovine spongiform encephalopathy; PrP-C-associated disorder;
 KM cancer; neurodegenerative disorder; immunological disorder;
 KM abnormal immunoglobulin secretion; lymphoma; multiple myeloma;
 KM monoclonal gammopathy; B cell-related autoimmune disease;
 KM myasthenia gravis; rheumatoid arthritis; ss.
 XX
 OS Mus musculus.

XX
 PN W0200100235-A1.
 PD
 PD 04-JAN-2001.
 XX
 XX 29-JUN-2000; 2000MO-US17927.
 XX
 PF 29-JUN-1999; 99US-0342426.
 XX
 PR (UYMC-) UNIV MCGILL.
 PA (CAPR-) CAPRION PHARM INC.
 XX
 PI Cashman NR, Dodelet V, Paramithiotis E;
 XX
 DR WPI; 2001-112393/12.
 DR P-PSDB; AAB59534.
 XX
 PT Identifying prion protein binding proteins for use in diagnosis,
 PT treatment of prion-related diseases, neurodegenerative disorders, by
 PT detecting complex formation with detectable prion protein fusion
 PT protein
 XX
 PS Disclosure; Page -: 77pp; English.
 XX
 CC The invention relates to a method of identifying a prion protein
 CC binding protein (PrPBP). The method comprises contacting a cell or
 CC biological sample with a detectable prion protein (PrP) fusion protein
 CC under conditions that allow complex formation between the fusion protein
 CC and a PrPBP, and detecting the complex, enabling the PrPBP to be
 CC identified. The invention also relates to a method for identifying a
 CC nucleic acid molecule which encodes PrPBP, which comprises providing a
 CC population of cells expressing a pool of nucleic acid molecules, where
 CC the cells do not normally express PrP on their cell surfaces; exposing
 CC the population of cells to detectably labelled PrP; and identifying a
 CC cell which binds the detectably labelled PrP, thereby enabling the
 CC nucleic acid encoding the PrPBP to be identified. The invention further
 CC relates to a method of detecting the abnormally folded pathogenic PrP
 CC isoform (PrP-Sc) in a sample using a PrPBP identified according to the
 CC invention; a method for screening potential inhibitors of PrP-Sc/PrPBP
 CC binding; the use of a PrPBP or PrP-binding portion thereof to inhibit
 CC PrP-Sc activity in a mammal or biological sample; the use of a PrPBP or
 CC PrP-binding portion thereof to treat a disorder associated with an
 CC undesirable level of interaction between the normally folded PrP-C and
 CC a PrPBP in a mammal; and a method of detecting B lymphocytes in a
 CC biological sample using a PrPBP. The invention also encompasses fusion
 CC proteins comprising PrP fused to alkaline phosphatase, or a PrPBP fused
 CC to alkaline phosphatase. PrPBPs, or the PrP-binding portions thereof, are
 CC useful for treating a disorder associated with PrP. The disorder may be
 CC a PrP-Sc-related disorder such as Creutzfeldt-Jakob disease (CJD), Kuru,
 CC fatal familial insomnia in humans, scrapie in sheep, and bovine
 CC spongiform encephalopathy (BSE) in cattle. The disorder may also be
 CC one associated with an undesirable level of interaction between the
 CC normally folded PrP-C and a PrPBP in a mammal such as cancer,
 CC neurodegenerative disorders, immunological disorders, abnormal
 CC proliferation or secretion of immunoglobulin, lymphoma, multiple
 CC myeloma, monoclonal gammopathy, B cell-related autoimmune diseases,
 CC myasthenia gravis, or rheumatoid arthritis. The present sequence
 CC represents CDNA encoding murine OB-cadherin-1 which was identified
 CC as a moderate affinity PrPBP in the invention.
 CC Note: The present sequence is not shown in the specification, but
 CC was obtained from Genbank (accession number D21253).
 XX
 SQ Sequence 3489 BP; 1053 A; 763 C; 791 G; 882 T; 0 other;
 XX
 Query Match 91.1%; Score 16.4; DB 22; Length 3489;
 Best Local Similarity 94.4%; Pred. No. 27;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 GGGCGGCTTGTAAACAGTA 18
 ID ||||||||||||||||
 ID 299 GGGCGGCTTGTAAACAGTA 282

DT	07-MAR-2002	(first entry)
DE	Mouse ischemic condition related CDNA sequence SEQ ID NO:825.	
KW	Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;	
KW	vasospastic ischaemia; ischaemic condition; ischaemic disease; ss.	
OS	Mus musculus.	
PN	WO200106186-A2.	
PD	22-NOV-2001.	
PF	18-MAY-2001; 2001WO-JP04192.	
PR	18-MAY-2000; 2000JP-0145977.	
PI	(UYN1) UNIV NIHON SCHOOL JURIDICAL PERSON.	
PA	Ishikawa K, Asai S, Takahashi Y, Nagata T, Ishii Y;	
PP	WPI: 2002-034733/04.	
DR	P-PSDB; ABB57294.	
XX		
PT	Examining the ischemic condition (e.g. occlusive ischemia) by measuring	
PT	expression levels of particular genes defined in the specification or	
PT	by determining the expression profile of a gene group comprising these	
XX	genes -	
PS	Claim 2; Page 2036-2043; 2690P; English.	
XX		
CC	The present invention describes a method for examining ischaemic	
CC	conditions, comprising measuring the expression levels of particular	
CC	genes (I) in a test sample or determining the expression profile of a	
CC	gene group in the sample comprising genes selected from (I). The method	
CC	is useful for examining the ischaemic condition (e.g. compressive	
CC	ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring	
CC	the protein levels of particular genes (AB199202 to AB199912, encoding	
CC	the expression profile of a gene group comprising these genes. The	
CC	expression levels or expression profiles produced by these genes are	
CC	used as an indicator when screening for ischaemic condition-improving	
CC	drugs or therapeutics for ischaemic diseases. AB199913 and AB199914	
CC	represent PCR primers for a mouse ischaemic condition related sequence,	
CC	which are used in the exemplification of the present invention.	
XX		
SO	Sequence 4127 BP; 1224 A; 889 C; 928 G; 1086 T; 0 other;	
Query Match	91.1%; Score 16.4; DB 24; Length 4127;	
Best Local Similarity	94.4%; Pred. No. 28;	
Matches 17; Conservative	0; Mismatches 1; Indels 0; Gaps 0;	
QY	1 GGGCGCTGTGAACAGTA 18	
Db	445 GGCAGCTGTAAACAGTA 428	
RESULT 12		
AAV86757/C		
ID	AAV86757 standard; CDNA; 302 BP.	
AC	AAV86757;	
XX		
DT	27-APR-1999 (first entry)	
DE	EST clone AX309.	
XX		
XX	Expressed sequence tag; secreted protein; haematopoiesis regulator;	
KM	tissue growth; actinin; inhibin; tumour invasion suppressor; EST; human;	
KM	chemotaxis; chemokinesis; haemostasis; gene therapy; thrombolysis;	
KM	receptor; ligand; anti-inflammatory; tumour inhibitor; ds.	
XX		
XX	Homo sapiens.	

XX PN MO9845435-A2.
 XX PD 15-OCT-1998.
 XX PF 10-APR-1998; 98MO-US06954.
 XX PR 10-APR-1997; 97US-0835913.
 XX PA (GENE) GENETICS INST INC.
 XX PI Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D;
 XX PT Racie LA, Spaulding V, Treacy M;
 XX DR WPI: 1999-070076/06.
 XX PT New polynucleotides encoding human secreted proteins - derived from
 XX PT e.g. human blood, kidney, foetal lung, placenta, testes, brain,
 XX PT ovary, pituitary, retina and colon cDNA libraries
 XX
 CC Claim 1: Page 339; 633pp; English.
 CC This sequence represents an expressed sequence tag (EST), and is a
 CC polynucleotide of the invention. The polynucleotides of the invention are
 CC all secreted EST sequences isolated from a variety of human tissue
 CC sources. The EST sequences and proteins encoded by them are predicted to
 CC have useful biological activities which would make them suitable for
 CC treating, preventing or ameliorating medical conditions in humans and
 CC animals, although no supporting data is given. Suggested activities
 CC include nutritional activity, immune stimulating or suppressing activity,
 CC hematopoiesis regulating activity, tissue growth activity,
 CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
 CC activity. The EST sequences are also stated to be useful for gene
 CC therapy.
 CC
 SQ Sequence 302 BP; 44 A; 89 C; 56 G; 113 T; 0 other;
 QY Query Match 85.6%; Score 15.4; DB 20; Length 302;
 Db Best Local Similarity 94.1%; Pred. No. 77;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 GCGCGCTTGTAAACAGT 17
 |||||||||
 Db 81 GCGCGCTTGTAAACAGT 65
 RESULT 13
 AAH53750/c
 AAH53750 standard; DNA: 345 BP.
 AC AAH53750;
 DT 03-SEP-2001 (first entry)
 DE S. epidermidis open reading frame nucleotide sequence SEQ ID NO:2893.
 KW Staphylococcus epidermidis SRI strain; infection; diagnosis;
 KM vaccination; endocarditis; ds.
 XX OS Staphylococcus epidermidis.
 XX PN MO200134809-A2.
 XX PD 17-MAY-2001.
 XX PF 09-NOV-2000; 2000MO-US30782.
 XX PR 09-NOV-1999; 99US-0164258.
 XX PA (GLAX) GLAXO GROUP LTD.
 XX

PI Kimerly MJ;
 XX WPI: 2001-316495/33.
 DR P-PSDB: AAG82900.
 XX
 PT Nucleic acids encoding polypeptides from Staphylococcus epidermidis,
 XX useful for vaccinating against infections, e.g. endocarditis -
 PS Claim 8; Page 754-755; 2188pp; English.
 XX
 CC AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides
 CC (II), given in AAG81454 to AAG83120, from staphylococcus epidermidis.
 CC (I) and (II) can have antibacterial activity and therefore can be used
 CC in vaccination. The nucleic acids (I) may be used to produce the
 CC S. epidermidis polypeptides (II) via the production of vectors
 CC containing them which are used to produce hosts cells which express the
 CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be
 CC used to vaccinate subjects and to raise antibodies against the bacteria.
 CC The polypeptides may also be used to assay for other inhibitors of their
 CC activity and therefore identify compounds that may be used for the
 CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to
 CC AAH5090 represent specifically claimed S. epidermidis genomic DNA
 CC polynucleotide sequences from the present invention. AAH5091 to
 CC AAH5098 represent oligonucleotide sequences and primers which are used
 CC in the exemplification of the present invention.
 CC N.B. The present invention specifically claims all the polynucleotide
 CC sequences given in the sequence listing of the present specification,
 CC however the sequence listing only goes up to SEQ ID NO:4454 so even
 CC though sequences are given in the disclosure for SEQ ID NO:4455 to 4472,
 CC no sequences are present for SEQ ID NO:4455 to 4464.
 XX
 SQ Sequence 345 BP; 115 A; 64 C; 67 G; 99 T; 0 other;
 QY Query Match 85.6%; Score 15.4; DB 22; Length 345;
 Db Best Local Similarity 94.1%; Pred. No. 78;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 GCGCGCTTGTAAACAGTA 18
 |||||||||
 Db 23 GCGCGCTTGTAAACAGTA 7
 RESULT 14
 ABQ58777
 ID ABQ58777 standard; cDNA: 654 BP.
 AC ABQ58777;
 DT 02-AUG-2002 (first entry)
 DE Human colon cancer related nucleotide sequence SEQ ID NO:2472.
 XX Human; colon cancer; cancer; tissue profiling; forensic; mapping;
 KW genetic analysis; diagnostic; antisense therapy; gene; ss.
 XX Homo sapiens.
 XX PN MO200229086-A2.
 XX PD 11-APR-2002.
 XX PF 02-OCT-2001; 2001MO-US30732.
 XX PR 02-OCT-2000; 2000US-237271P.
 XX PA (FAR) BAYER CORP.
 XX Burgess C, Astle JH, Carroll E, Catino TJ, Dwivedi P, Molino GA;
 PI Thangalingam A, Lewis ME;
 XX WPI: 2002-426115/45.
 XX DR New isolated nucleic acid that is differentially expressed in cancer
 XX PT

PT tissues useful for determining the presence of colon cancer in a cell
 PT or tissue type, and in antisense therapy

PS Claim 1; Fig 1; 796pp; English.

CC AA056506 to AB060787 represent isolated nucleic acids (1) differentially
 CC expressed in cancer tissues. ABB78993 to ABB79004 represent proteins
 CC encoded by the AB060776 to AB060787 nucleic acid sequences. (1) can be
 CC used in antisense therapy. An antibody immunoreactive with a polypeptide
 CC encoded by (1) is useful for detecting cancer in a patient sample, and
 CC for detecting the presence or absence of a polynucleotide encoded by a
 CC nucleic acid which hybridises to (1) in a cell. A probe/primer derived
 CC from (1) can be used for determining the presence of a nucleic acid which
 CC hybridises to (1), and for determining the phenotype of cells in a sample
 CC of cells from a patient. (1) is useful for determining the presence of
 CC colon cancer in a cell or tissue type, for determining the presence or
 CC state of other type of cancer, in antisense therapy, to generate
 CC microarrays on a solid surface, to identify a chromosome on which the
 CC corresponding gene resides, and in tissue profiling, forensics, genetic
 CC analysis, mapping and diagnostic applications. (1) can be used to raise
 CC antibodies, and to screen for peptide analogues and antagonists.

SQ Sequence 654 BP; 199 A; 122 C; 158 G; 168 T; 7 other;

Query Match 85.6%; Score 15.4; DB 24; Length 654;
 Best Local Similarity 94.1%; Pred. No. 83;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGT 17
 |||||||||
 Db 186 GCGCGCTGTGAACAGT 202

RESULT 15

AAH03710

ID AAH03710 standard; cDNA; 808 BP.

AC AAH03710;

DT 26-JUN-2001 (first entry)

DE Human cDNA clone (5'-primer) SEQ ID NO:545.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

OS Homo sapiens.

XX BP1074617-A2.

07-FEB-2001.

PF 28-JUL-2000; 2000EP-0116126.

PR 29-JUL-1999; 99JP-0248036.

PR 27-AUG-1999; 99JP-0300253.

PR 11-JAN-2000; 2000JP-0118776.

PR 02-MAY-2000; 2000JP-0183767.

PR 09-JUN-2000; 2000JP-0241899.

PA (HELI-) HELIX RES INST.

PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

DR WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602
 PT full-length cDNAs defined in the specification, and for the detection
 PT and/or diagnosis of the abnormality of the proteins encoded by the
 PT full-length cDNAs -
 PS Claim 1; SEQ ID 545; 2537pp + CD ROM; English.

CC The present invention describes primer sets for synthesizing 5602
 CC full-length cDNAs defined in the specification. Where a primer set
 CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 CC to the complementary strand of a polynucleotide which comprises one of
 CC the 5602 nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to the
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in
 CC the specification. The primer sets can be used in antisense therapy and
 CC in gene therapy. The primers are useful for synthesizing polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
 CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
 CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.

SQ Sequence 808 BP; 265 A; 149 C; 200 G; 191 T; 3 other;

Query Match 85.6%; Score 15.4; DB 22; Length 808;
 Best Local Similarity 94.1%; Pred. No. 85;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGT 17
 |||||||||
 Db 123 GCGCGCTGTGAACAGT 139

Search completed: June 22, 2003, 08:11:48
 Job time : 240 secs

Query Match	100.0%;	Score 18;	DB 1;	Length 2625
Best Local Similarity	100.0%;	Pred. No.	0.56;	

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCGGCTGTAAACAGTA 18
|||||
Db 185 GCGGCTGTAAACAGTA 168

RESULT 2
US-08-332-643-51/C

Sequence 51, Application US/08332643
Patent No. 5639634

GENERAL INFORMATION:

APPLICANT: Suzuki, Shintaro

TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS

NUMBER OF SEQUENCES: 56

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &

STREET: Two First National Plaza, 20 South Clark

CITY: Chicago

STATE: Illinois

COUNTRY: USA

ZIP: 60603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/332,643

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/872,643

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: No. 5639634and, Greta E.

REGISTRATION NUMBER: 35,302

REFERENCE/DOCKET NUMBER: 27866/30795

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 346-5750

TELEFAX: (312) 984-9740

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 51:

SEQUENCE CHARACTERISTICS:

LENGTH: 2625 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-08-332-643-51

Query Match 100.0%; Score 18; DB 1; Length 2625;
Best Local Similarity 100.0%; Pred. No. 0.56;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCTGTAAACAGTA 18
|||||
Db 185 GCGGCTGTAAACAGTA 168

RESULT 3
US-08-332-638-57/C

Sequence 57, Application US/08332638
Patent No. 5646250

GENERAL INFORMATION:

APPLICANT: Suzuki, Shintaro

TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS

NUMBER OF SEQUENCES: 62

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &

STREET: Borun

CITY: Chicago

STATE: Illinois

COUNTRY: USA

ZIP: 60603

STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/332,638

FILING DATE: 01-NOV-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/872,643

FILING DATE: 17 APR 1992

APPLICATION NUMBER: US/08/049,460

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: No. 5646250and, Greta E.

REGISTRATION NUMBER: 35,302

REFERENCE/DOCKET NUMBER: 31340

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 474-6300

TELEFAX: (312) 474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 57:

SEQUENCE CHARACTERISTICS:

LENGTH: 2625 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-08-332-638-57

Query Match 100.0%; Score 18; DB 1; Length 2625;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCTGTAAACAGTA 18
|||||
Db 185 GCGGCTGTAAACAGTA 168

RESULT 4
US-08-738-349-3/C

Sequence 3, Application US/08738349
Patent No. 5689638

GENERAL INFORMATION:

APPLICANT: Takeshita, Sunao

APPLICANT: Okazaki, Makoto

APPLICANT: Kawai, Shinji

APPLICANT: Tsujimura, Atsushi

APPLICANT: Amann, Egon

TITLE OF INVENTION: Bone-Related Cadherin-Like Protein and

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Flinnegan, Henderson, Farabow, Garrett &

STREET: Dunner

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/738,349

FILING DATE: 25-OCT-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/364,439
FILING DATE: 26-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Barker, M. P.
REGISTRATION NUMBER: 32,013
REFERENCE/DOCKET NUMBER: 02481.1323-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 3712 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
ORGANISM: Homo sapiens
TISSUE TYPE: Osteosarcoma
FEATURE:
NAME/KEY: CDS
LOCATION: 461..2848
US-08-738-349-3

Query Match 100.0%; Score 18; DB 2; Length 3712;
Best Local Similarity 100.0%; Pred. No. 0.58;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCGCTTTAAACAGTA 18
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DB 490 GCGGCGCTTTAAACAGTA 473

RESULT 5
US-08-738-349-5/C
Sequence 5, Application US/08738349
Patent No. 5869638
GENERAL INFORMATION:
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
APPLICANT: Kawai, Shinji
APPLICANT: Tsujimura, Atsushi
APPLICANT: Amanu, Egon
TITLE OF INVENTION: Bone-Related Cadherin-Like Protein and
TITLE OF INVENTION: Process for Its Production
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,349
FILING DATE: 25-OCT-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/364,439
FILING DATE: 26-AUG-1993
APPLICATION NUMBER: US 08/112,061
FILING DATE: 26-AUG-1993

ATTORNEY/AGENT INFORMATION:
NAME: Barker, M. P.
REGISTRATION NUMBER: 32,013
REFERENCE/DOCKET NUMBER: 02481.1323-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 3914 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
FEATURE:
NAME/KEY: CDS
LOCATION: 491..2569
US-08-738-349-5

Query Match 100.0%; Score 18; DB 2; Length 3914;
Best Local Similarity 100.0%; Pred. No. 0.58;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCGCTTTAAACAGTA 18
|||||
DB 520 GCGGCGCTTTAAACAGTA 503

RESULT 6
US-08-738-349-1/C
Sequence 1, Application US/08738349
Patent No. 5869638
GENERAL INFORMATION:
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
APPLICANT: Kawai, Shinji
APPLICANT: Tsujimura, Atsushi
APPLICANT: Amanu, Egon
TITLE OF INVENTION: Bone-Related Cadherin-Like Protein and
TITLE OF INVENTION: Process for Its Production
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,349
FILING DATE: 25-OCT-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/364,439
FILING DATE: 26-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Barker, M. P.
REGISTRATION NUMBER: 32,013
REFERENCE/DOCKET NUMBER: 02481.1323-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3581 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
ORIGINAL SOURCE: CDNA to mRNA
ORGANISM: Mus musculus
STRAIN: osteoblastic cell line MC3T3E1
FEATURE:
NAME/KEY: CDS
LOCATION: 284..2671
US-08-738-349-1

Query Match
Best Local Similarity 91.1%; Score 16.4; DB 2; Length 3581;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 1 GGCGGCTGTGTAACAGTA 18
313 GGCGGCTGTGTAACAGTA 296

RESULT 7
US-09-134-001C-370/C
Sequence 370, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 370
LENGTH: 1014
TYPE: DNA
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-370

Query Match
Best Local Similarity 85.6%; Score 15.4; DB 4; Length 1014;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 2 GGCGGCTGTGTAACAGTA 18
692 GGCGGCTGTGTAACAGTA 676

RESULT 8
US-08-942-008-1
Sequence 1, Application US/08942008
Patent No. 6133419
GENERAL INFORMATION:

APPLICANT: Brase, Sylvia
TITLE OF INVENTION: Nucleotide Sequences that Encode
TITLE OF INVENTION: Phosphatidylinositol-3' Kinase Associated Proteins and
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: ONYX Pharmaceuticals, Inc.
STREET: 3031 Research Drive
CITY: Richmond
STATE: CA
COUNTRY: USA
ZIP: 94806
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/942,008
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Giolla, Gregory
REGISTRATION NUMBER: 32,028
REFERENCE/DOCKET NUMBER: ONYX1027
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 262-8710
TELEFAX: (510) 222-9758
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2307 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 162..1928
US-08-942-008-1

Query Match
Best Local Similarity 85.6%; Score 15.4; DB 3; Length 2307;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 1 GGCGGCTGTGTAACAGT 17
1153 GGCGGCTGTGTAACAGT 1169

RESULT 9
US-09-453-702B-50
Sequence 50, Application US/09453702B
Patent No. 6365723
GENERAL INFORMATION:

APPLICANT: Blattner, Frederick R.
Burland, Valerie
Perna, Nicole T.
Plunkett, Guy
Welch, Rod
TITLE OF INVENTION: No. 6365723e1 Sequences of E. coli O157
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Plunkney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 Inch, 1.44Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/453,702B
FILING DATE: 03-Dec-1999
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/110,955
FILING DATE: 04-Dec-1998
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.95017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-5000
TELEFAX: (608) 251-9166

NUMBER OF SEQUENCES: 04
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Crew LLP

```

STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/875,811
FILING DATE: 19-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US97/02588
FILING DATE: 19-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/011,800
FILING DATE: 21-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Faris, Susan K.
REGISTRATION NUMBER: 41,739
REFERENCE/DOCKET NUMBER: 015280-244100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 1065 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1065
OTHER INFORMATION: /note="sfvfbmetgluonc"
US-08-875-811-40

Query Match
Best Local Similarity 76.7%; Score 13.8; DB 3; Length 1065;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 GCGGCTGTAAACAGTA 18
DB 553 GCGGCTGTAAATAGTA 537

RESULT 13
US-08-875-811-48/c
Sequence 48 Application US/08875811
Patent No. 6045793
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: Boque, Lluís
APPLICANT: Wlodawer, Alexander
TITLE OF INVENTION: Recombinant Ribonuclease Proteins
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/875,811
FILING DATE: 19-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US97/02588
FILING DATE: 19-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/011,800
FILING DATE: 21-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Faris, Susan K.
REGISTRATION NUMBER: 41,739
REFERENCE/DOCKET NUMBER: 015280-244100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 1065 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1065
OTHER INFORMATION: /note="sfvbnmetlser"
US-08-875-811-48

Query Match
Best Local Similarity 76.7%; Score 13.8; DB 3; Length 1065;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 GCGGCTGTAAACAGTA 18
DB 553 GCGGCTGTAAATAGTA 537

RESULT 14
US-08-875-811-44/c
Sequence 44 Application US/08875811
Patent No. 6045793
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: Boque, Lluís
APPLICANT: Wlodawer, Alexander
TITLE OF INVENTION: Recombinant Ribonuclease Proteins
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/875,811
FILING DATE: 19-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US97/02588
FILING DATE: 19-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/011,800
FILING DATE: 21-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Faris, Susan K.

```



```

: REGISTRATION NUMBER: 41,739
: REFERENCE/DOCKET NUMBER: 015280-244100US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 44:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1074 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..1074
: OTHER INFORMATION: /note="MetSerOnCA87FBEG"
: US-08-875-811-44

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Query Match          76.7%; Score 13.8; DB 3; Length 1074;
Best Local Similarity 88.2%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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OY      2 GCGGCTTGTAACAGTA 18
        |||||
Db      907 GCGGCTTGTAATAGTA 891

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RESULT 15
: US-08-875-811-50/c
: Sequence 50, Application US/08875811
: Patent No. 6045793
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: Boque, Lluís
: APPLICANT: Wlodawer, Alexander
: TITLE OF INVENTION: Recombinant Ribonuclease Proteins
: NUMBER OF SEQUENCES: 64
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend and Crew LLP
: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/875,811
: FILING DATE: 19-FEB-1998
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: WO PCT/US97/02588
: FILING DATE: 19-FEB-1997
: APPLICATION DATA:
: APPLICATION NUMBER: US 60/011,800
: FILING DATE: 21-FEB-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Parls, Susan K.
: REGISTRATION NUMBER: 41,739
: REFERENCE/DOCKET NUMBER: 015280-244100US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 50:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1074 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear

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: MOLECULE TYPE: DNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..1074
: OTHER INFORMATION: /note="MetGluOnCFBEG"
: US-08-875-811-50

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Query Match          76.7%; Score 13.8; DB 3; Length 1074;
Best Local Similarity 88.2%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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OY      2 GCGGCTTGTAACAGTA 18
        |||||
Db      907 GCGGCTTGTAATAGTA 891

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Job time : 51 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 08:44:05 ; Search time 142 Seconds
(without alignments)
186.012 Million cell updates/sec

Title: US-09-830-811-1

Perfect score: 18

Sequence: 1 ggcgccttgaacagta 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1042519 segs, 733713590 residues

Total number of hits satisfying chosen parameters: 2085038

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

Database : Published Applications_NA:
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2: /cgn2_6/ptodata/2/pubpna/PCNT_NEM_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEM_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US07_NEM_PUB.seq:*
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14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
C 1	18	100.0	3403 12 US-10-044-090-597	Sequence 597, App
C 2	18	100.0	3867 10 US-09-919-497-5	Sequence 5, App
C 3	15.4	85.6	480 9 US-09-918-995-37236	Sequence 37236, A
C 4	15.4	85.6	7053 10 US-09-764-864-792	Sequence 792, App
C 5	14.8	82.2	142 10 US-09-878-574-9162	Sequence 9162, App
C 6	14.8	82.2	207 10 US-09-878-574-12381	Sequence 12381, A
C 7	14.8	82.2	222 10 US-09-878-574-12500	Sequence 12500, A
C 8	14.8	82.2	249 10 US-09-878-574-11388	Sequence 11388, A
C 9	14.8	82.2	473 9 US-09-918-995-10360	Sequence 10360, A
C 10	14.8	82.2	648 10 US-09-974-300-5592	Sequence 5592, A
C 11	14.8	82.2	1347 9 US-09-938-842A-208	Sequence 208, App
C 12	14.8	82.2	38584 9 US-10-114-170-50	Sequence 8610, App
C 13	14.4	80.0	229 10 US-09-878-574-8610	Sequence 8610, App
C 14	14.4	80.0	383 9 US-09-918-995-6449	Sequence 6449, App
C 15	14.4	80.0	1069 10 US-09-833-381-1732	Sequence 1732, App
C 16	14.4	80.0	2804 9 US-10-198-846-10399	Sequence 10399, A
C 17	14.4	80.0	4084 12 US-10-044-090-221	Sequence 221, App
C 18	14	77.8	297 10 US-09-867-701-10153	Sequence 10153, A
C 19	14	77.8	312 10 US-09-923-876-3656	Sequence 3656, App

C 20	14	77.8	951 9 US-09-902-525-43	Sequence 43, App
C 21	14	77.8	1191 9 US-09-974-879-16	Sequence 16, App
C 22	14	77.8	1191 9 US-09-305-736-15	Sequence 15, App
C 23	14	77.8	465237 10 US-09-933-267A-1	Sequence 1, App
C 24	13.8	76.7	304 9 US-09-764-891-791	Sequence 791, App
C 25	13.8	76.7	339 10 US-09-978-752-6	Sequence 6, App
C 26	13.8	76.7	340 10 US-09-974-300-1807	Sequence 1807, App
C 27	13.8	76.7	402 9 US-10-023-437-38	Sequence 38, App
C 28	13.8	76.7	437 9 US-09-764-891-6902	Sequence 6902, App
C 29	13.8	76.7	446 10 US-09-770-444-772	Sequence 772, App
C 30	13.8	76.7	723 10 US-09-978-752-7	Sequence 7, App
C 31	13.8	76.7	774 10 US-09-910-943-623	Sequence 623, App
C 32	13.8	76.7	879 10 US-09-978-752-22	Sequence 22, App
C 33	13.8	76.7	984 10 US-09-815-242-4429	Sequence 4429, App
C 34	13.8	76.7	981 10 US-09-815-242-8488	Sequence 8488, App
C 35	13.8	76.7	1827 9 US-10-023-437-40	Sequence 40, App
C 36	13.8	76.7	2100 9 US-09-201-936-9	Sequence 9, App
C 37	13.8	76.7	2691 10 US-09-974-592-9	Sequence 9, App
C 38	13.8	76.7	5693 9 US-09-764-891-6123	Sequence 8123, App
C 39	13.8	76.7	16592 7 US-08-781-986A-53	Sequence 53, App
C 40	13.8	76.7	17849 9 US-10-092-154-1315	Sequence 1315, App
C 41	13.8	76.7	17849 9 US-09-764-891-10139	Sequence 10139, App
C 42	13.8	76.7	17849 10 US-09-764-847-1315	Sequence 1315, App
C 43	13.8	76.7	17862 9 US-10-092-154-1313	Sequence 1313, App
C 44	13.8	76.7	17862 9 US-09-764-891-10138	Sequence 10138, App
C 45	13.8	76.7	17862 10 US-09-764-847-1313	Sequence 1313, App

ALIGNMENTS

RESULT 1
US-10-044-090-597/c
Sequence 597, Application US/10044090
Patent No. US20020137081A1
GENERAL INFORMATION:
APPLICANT: Olga Bandman
TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
FILE REFERENCE: PA-0028 US
CURRENT APPLICATION NUMBER: US/10/044, 090
CURRENT FILING DATE: 2002-01-09
NUMBER OF SEQ ID NOS: 850
SOFTWARE: PERL Program
SEQ ID NO 597
LENGTH: 3403
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20020137081A1 1258943CB1
US-10-044-090-597

Query Match 100.0%; Score 18; DB 12; Length 3403;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGAACAGTA 18
Db 206 GCGCGCTTGAACAGTA 189
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RESULT 2
US-09-919-497-5/c
Sequence 5, Application US/09919497
Patent No. US20020106662A1
GENERAL INFORMATION:
APPLICANT: Muller, George L.
TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
FILE REFERENCE: B0801/7225
CURRENT APPLICATION NUMBER: US/09/919, 497
CURRENT FILING DATE: 2001-07-31
PRIOR APPLICATION NUMBER: US 60/221, 735
PRIOR FILING DATE: 2000-07-31

NUMBER OF SEQ ID NOS: 100
SOFTWARE: PatentIn version 3.0
SEQ ID NO 5
LENGTH: 3867
TYPE: DNA
ORGANISM: Homo sapiens
US-09-919-497-5

Query Match
Best Local Similarity 100.0%; Score 18; DB 10; Length 3867;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAACAGTA 18
DB 506 GCGCGCTTGTAACAGTA 489

RESULT 3

US-09-918-995-37236
Sequence 37236, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 37236
LENGTH: 480
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(480)
OTHER INFORMATION: n = A,T,C or G
US-09-918-995-37236

Query Match
Best Local Similarity 85.6%; Score 15.4; DB 9; Length 480;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAACAGT 17
DB 144 GCGCGCTTGTAACAGT 160

RESULT 4

US-09-764-864-792
Sequence 792, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PT223
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 792
LENGTH: 7053
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (154)
OTHER INFORMATION: n equals a,t,g, or c
US-09-764-864-792

Query Match
Best Local Similarity 85.6%; Score 15.4; DB 10; Length 7053;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAACAGT 17
DB 1193 GCGCGCTTGTAACAGT 1209

RESULT 5

US-09-878-574-9162/c
Sequence 9162, Application US/09878574
Patent No. US20020110548A1
GENERAL INFORMATION:

APPLICANT: Byrum, Joseph R.
APPLICANT: La Rosa, Thomas J.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
FILE OF INVENTION: Plants
FILE REFERENCE: 38-21(15401)B
CURRENT APPLICATION NUMBER: US/09/878,574
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 09/333,535
PRIOR FILING DATE: 1999-06-14
NUMBER OF SEQ ID NOS: 15775
SEQ ID NO 9162
LENGTH: 142
TYPE: DNA
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: 701102155H1
US-09-878-574-9162

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 142;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAACAGTA 18
DB 136 GCGCGCTTGTAACAGTA 119

RESULT 6

US-09-878-574-12381/c
Sequence 12381, Application US/09878574
Patent No. US20020110548A1
GENERAL INFORMATION:
APPLICANT: Byrum, Joseph R.
APPLICANT: La Rosa, Thomas J.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
FILE OF INVENTION: Plants
FILE REFERENCE: 38-21(15401)B
CURRENT APPLICATION NUMBER: US/09/878,574
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 09/333,535
PRIOR FILING DATE: 1999-06-14
NUMBER OF SEQ ID NOS: 15775
SEQ ID NO 12381
LENGTH: 207
TYPE: DNA
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: 701065703H1
US-09-878-574-12381

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 207;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAACAGTA 18
DB 143 GCGCGCTTGTAACAGTA 126

RESULT 7
US-09-878-574-12500/C
; Sequence 12500, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 12500
; LENGTH: 222
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701065851H1
US-09-878-574-12500

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 222;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 164 GGAGCGCTTGTAAACAGCA 147

RESULT 8
US-09-878-574-11388/C
; Sequence 11388, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 11388
; LENGTH: 249
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701064387H1
US-09-878-574-11388

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 249;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 167 GGAGCGCTTGTAAACAGCA 150

RESULT 9
US-09-918-995-10360/C
; Sequence 10360, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseng, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FROM VARIOUS CDNA LIBRARIES

FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10360
; LENGTH: 473
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(473)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-10360

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 9; Length 473;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 377 GCGCGCTTGTAAACAGCA 360

RESULT 10
US-09-974-300-5592
; Sequence 5592, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berkta, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods for Monitoring Multiple Gene
; FILE REFERENCE: 10085,500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5592
; LENGTH: 648
; TYPE: DNA
; ORGANISM: Bacillus clausii
US-09-974-300-5592

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 648;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 536 GCGCGCTTGTAAACAGTA 553

RESULT 11
US-09-938-842A-208/C
; Sequence 208, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRSS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24

PRIOR APPLICATION NUMBER: US 60/227,866
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/264,647
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/300,111
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 5379
SEQ ID NO 208
LENGTH: 1347
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-938-842A-208

Query Match 82.2%; Score 14.8; DB 9; Length 1347;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGGCTTGTAAACAGTA 18
1073 GCGGCTTGTAAACAGTA 1056

RESULT 12
US-10-114-170-50
Sequence 50, Application US/10114170
Publication No. US20030023075A1
GENERAL INFORMATION:
APPLICANT: Baltner, Frederick R.
Burland, Valerie
Perna, Nicole T.
Plunkett, Guy
Welch, Rod

TITLE OF INVENTION: NO. US20030023075A1 Sequences of E. coli O157
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pluckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB storage

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/114,170
FILING DATE: 01-Apr-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/453,702
FILING DATE: 03-DEC-1999
APPLICATION NUMBER: 60/110,955
FILING DATE: 04-DEC-1998

ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.95017

TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-5000
TELEFAX: (608) 251-9166

INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 38584
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-10-114-170-50

Query Match 82.2%; Score 14.8; DB 9; Length 38584;

Best Local Similarity 88.9%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GCGGCTTGTAAACAGTA 18
DB 36134 GCGGCTTGTAAACAGTA 36151

RESULT 13
US-09-878-574-8610/c
Sequence 8610, Application US/09878574
Patent No. US20020110548A1
GENERAL INFORMATION:
APPLICANT: Byrum, Joseph R.
APPLICANT: Ia Rosa, Thomas J.
APPLICANT: Thompson, Michael D.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
FILE REFERENCE: 38-21(15401)B
CURRENT APPLICATION NUMBER: US/09/878,574
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 09/333,535
PRIOR FILING DATE: 1999-06-14
NUMBER OF SEQ ID NOS: 15775
SEQ ID NO 8610
LENGTH: 229
TYPE: DNA
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: 701101435H1
US-09-878-574-8610

Query Match 80.0%; Score 14.4; DB 10; Length 229;
Best Local Similarity 93.8%; Pred. No. 1.8e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGGCTTGTAAACAG 16
DB 77 GCGGCTTGTAAACAG 62

RESULT 14
US-09-918-995-6449/c
Sequence 6449, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6449
LENGTH: 383
TYPE: DNA
ORGANISM: Homo sapiens
US-09-918-995-6449

Query Match 80.0%; Score 14.4; DB 9; Length 383;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGGCTTGTAAACAG 16
DB 239 GCGGCTTGTAAACAG 224

RESULT 15
US-09-833-381-1732/c
Sequence 1732, Application US/09833381

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; Patent No. US20020132090A1
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E
; TITLE OF INVENTION: No. US20020132090A1el Nucleic Acid and Protein Homologs
; FILE REFERENCE: 5800-119
; CURRENT APPLICATION NUMBER: US/09/833,381
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 09/516,448
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 2050
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1732
; LENGTH: 1069
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1069)
; OTHER INFORMATION: n = A,T,C or G
US-09-833-381-1732

Query Match      80.0%; Score 14.4; DB 10; Length 1069;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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OM nucleic - nucleic search, using sw model

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(without alignments)
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Title: US-09-830-811-1

Perfect score: 18

Sequence: 1 ggcgccttgcacacagta 18

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Gapop 10.0 , Gapext 1.0

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Post-processing: Minimum Match 0%

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3	18	100.0	420	US-09-293-972-29969	Sequence 29969, A
4	18	100.0	420	US-09-904-939-29969	Sequence 29969, A
5	18	100.0	443	US-09-287-618-26653	Sequence 26653, A
6	18	100.0	492	US-09-824-518-5128	Sequence 5128, Ap
7	18	100.0	513	US-09-534-857-1848	Sequence 1848, Ap
8	18	100.0	619	US-09-644-871-7428	Sequence 7428, Ap
9	18	100.0	619	US-09-652-124-7882	Sequence 7882, Ap
10	18	100.0	2625	PCT-US03-18947-670	Sequence 670, App
11	18	100.0	2625	PCT-US93-03681-57	Sequence 57, Appl
12	18	100.0	2625	US-09-053-3758-1424	Sequence 1424, Ap
13	18	100.0	2625	US-09-403-441-1	Sequence 1, Appl1
14	18	100.0	2625	US-09-442-589B-797	Sequence 797, App
15	18	100.0	2625	US-09-654-328-1	Sequence 1, Appl1
16	18	100.0	2625	US-10-163-818-1	Sequence 1, Appl1
17	18	100.0	2625	US-10-172-118-670	Sequence 670, App
18	18	100.0	3296	US-09-770-173-2189	Sequence 2189, Ap
19	18	100.0	3296	US-09-770-173-6393	Sequence 6393, Ap
20	18	100.0	3403	US-10-044-090-597	Sequence 597, App
21	18	100.0	3403	US-10-084-817-136	Sequence 136, App

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SUMMARIES

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C 22 18 100.0 3403 70 US-60-260-483-597
C 23 18 100.0 3460 17 US-09-371-168-6588
C 24 18 100.0 3460 25 US-09-644-871-8016
C 25 18 100.0 3460 25 US-09-652-355-9125
C 26 18 100.0 3460 31 US-09-801-833-6588
C 27 18 100.0 3867 1 PCT-US01-24104-5
C 28 18 100.0 3867 1 PCT-US01-24104-5
C 29 18 100.0 3867 34 US-09-919-497-5
C 30 18 100.0 3867 76 US-60-324-185-30389
C 31 18 100.0 4022 25 US-09-644-871-9324
C 32 18 100.0 4022 26 US-09-667-547-1107
C 33 18 100.0 4022 26 US-09-667-547-1107
C 34 18 100.0 4022 27 US-09-698-012-8524
C 35 18 100.0 4022 27 US-09-698-012-8524
C 36 18 100.0 4022 28 US-09-710-285-1912
C 37 18 100.0 4022 28 US-09-710-285-1912
C 38 18 100.0 4022 29 US-09-726-178-5202
C 39 18 100.0 4022 29 US-09-726-178-5202
C 40 18 100.0 4022 29 US-09-726-178-5202
C 41 18 100.0 4022 29 US-09-726-178-5202
C 42 18 100.0 4022 29 US-09-726-178-5202
C 43 18 100.0 4022 29 US-09-726-178-5202
C 44 18 100.0 4022 29 US-09-726-178-5202
C 45 18 100.0 4022 29 US-09-726-178-5202

```

```

Sequence 597, App
Sequence 6588, Ap
Sequence 8016, Ap
Sequence 9125, Ap
Sequence 6588, Ap
Sequence 5, Appl1
Sequence 485, App
Sequence 30389, A
Sequence 9324, Ap
Sequence 1107, Ap
Sequence 8524, Ap
Sequence 5446, Ap
Sequence 1912, Ap
Sequence 1643, Ap
Sequence 5127, Ap
Sequence 5202, Ap
Sequence 4705, Ap
Sequence 5412, Ap
Sequence 3024, Ap
Sequence 4684, Ap
Sequence 9362, Ap

```

ALIGNMENTS

RESULT 1

```

US-09-830-811-1
Sequence 1, Application US/09830811
GENERAL INFORMATION:
APPLICANT: The University of British Columbia
TITLE OF INVENTION: CADHERIN-11 EXPRESSION, AN ASSAY AND TREATMENT FOR CELLULAR
FILE REFERENCE: 80021-275
CURRENT APPLICATION NUMBER: US/09/830,811
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/106,258
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 18
TYPE: DNA
ORGANISM: Homo sapiens
US-09-830-811-1

```

Query Match

```

Best Local Similarity 100.0%; Score 18; DB 32; Length 18;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GCGCGCTGTAAACAGTA 18
DB 1 GCGCGCTGTAAACAGTA 18

```

RESULT 2

```

US-09-644-871-4418/c
Sequence 4418, Application US/09644871
GENERAL INFORMATION:
APPLICANT: Holtzman, Douglas A.
TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
FILE REFERENCE: 1600.1167-001
CURRENT APPLICATION NUMBER: US/09/644,871
PRIOR FILING DATE: 2000-08-28
PRIOR APPLICATION NUMBER: 60/151,059
NUMBER OF SEQ ID NOS: 9739
SOFTWARE: FastSeq for Windows Version 4.0

```

```

; SEQ ID NO 4418
; LENGTH: 377
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(377)
; OTHER INFORMATION: n = A,T,C or G
US-09-644-871-4418

```

Query Match

```

Best Local Similarity 100.0%; Score 18; DB 25; Length 377;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GCGCGCTGTAAACAGTA 18
DB 278 GCGCGCTGTAAACAGTA 261

```

RESULT 3

```

US-09-293-972-29969/c
Sequence 29969, Application US/09293972
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-769
CURRENT APPLICATION NUMBER: US/09/293,972
PRIOR FILING DATE: 1999-04-15
NUMBER OF SEQ ID NOS: 34258
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 29969
LENGTH: 420
TYPE: DNA
ORGANISM: Homo sapiens
US-09-293-972-29969

```

Query Match

```

Best Local Similarity 100.0%; Score 18; DB 16; Length 420;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GCGCGCTGTAAACAGTA 18
DB 380 GCGCGCTGTAAACAGTA 363

```

RESULT 4

```

US-09-904-939-29969/c
Sequence 29969, Application US/09904939
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-769
CURRENT APPLICATION NUMBER: US/09/904,939
PRIOR FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: 09/293,972
NUMBER OF SEQ ID NOS: 34258
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 29969
LENGTH: 420
TYPE: DNA
ORGANISM: Homo sapiens
US-09-904-939-29969

```

Query Match

```

Best Local Similarity 100.0%; Score 18; DB 34; Length 420;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GCGCGCTGTAAACAGTA 18
DB 380 GCGCGCTGTAAACAGTA 363

```

```
RESULT 5
US-09-287-618-26653/C
; Sequence 26653, Application US/09287618
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-768
; CURRENT APPLICATION NUMBER: US/09/287,618
; CURRENT FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 35865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 26653
; LENGTH: 443
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)---(443)
; OTHER INFORMATION: n = A,T,C or G
US-09-287-618-26653

Query Match          100.0%; Score 18; DB 16; Length 443;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTTGTAACAGTA 18
    |||||||
Db 427 GCGCGCTTGTAACAGTA 410

RESULT 6
US-09-824-518-5128/C
; Sequence 5128, Application US/09824518
; GENERAL INFORMATION:
; APPLICANT: Gearling, David P.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.2078-001
; CURRENT APPLICATION NUMBER: US/09/824,518
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/193,436
; NUMBER OF SEQ ID NOS: 10042
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5128
; LENGTH: 492
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-824-518-5128

Query Match          100.0%; Score 18; DB 31; Length 492;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTTGTAACAGTA 18
    |||||||
Db 27 GCGCGCTTGTAACAGTA 10

RESULT 7
US-09-534-857-1848/C
; Sequence 1848, Application US/09534857
; GENERAL INFORMATION:
; APPLICANT: Sellhammer, Jeffrey J.
; APPLICANT: Deleghene, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
```

```
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ADHESION PROTEINS AND L
; FILE REFERENCE: PD-1012 CIP
; CURRENT APPLICATION NUMBER: US/09/534,857
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 8920
; SOFTWARE: PERL Program
; SEQ ID NO 1848
; LENGTH: 513
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: hu01314854
US-09-534-857-1848

Query Match          100.0%; Score 18; DB 20; Length 513;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTTGTAACAGTA 18
    |||||||
Db 421 GCGCGCTTGTAACAGTA 404

RESULT 8
US-09-644-871-7428/C
; Sequence 7428, Application US/09644871
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1167-001
; CURRENT APPLICATION NUMBER: US/09/644,871
; CURRENT FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: 60/151,059
; PRIOR FILING DATE: 1999-08-27
; NUMBER OF SEQ ID NOS: 9739
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7428
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-644-871-7428

Query Match          100.0%; Score 18; DB 25; Length 619;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGCTTGTAACAGTA 18
    |||||||
Db 520 GCGCGCTTGTAACAGTA 503

RESULT 9
US-09-652-124-7882/C
; Sequence 7882, Application US/09652124
; GENERAL INFORMATION:
; APPLICANT: Holzman, Douglas A.
; APPLICANT: Welch, Nadine S.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1179-001
; CURRENT APPLICATION NUMBER: US/09/652,124
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/151,131
; PRIOR FILING DATE: 1999-08-30
; NUMBER OF SEQ ID NOS: 9868
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7882
; LENGTH: 619
; TYPE: DNA
```

ORGANISM: Homo sapiens
US-09-652-124-7882

Query Match 100.0%; Score 18; DB 25; Length 619;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
|||||
Db 520 GCGCGCTGTGAACAGTA 503

RESULT 10
PCT-US02-18947-670/C
Sequence 670, Application PC/TUS0218947
GENERAL INFORMATION:

APPLICANT: Rosetta Impharmatics
TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
FILE REFERENCE: 9301-175-228
CURRENT APPLICATION NUMBER: PCT/US02/18947
CURRENT FILING DATE: 2002-06-14
PRIOR APPLICATION NUMBER: 60/380,770
PRIOR FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 2639
SEQ ID NO 670
LENGTH: 2625
TYPE: DNA
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: NM_001797
DATABASE ENTRY DATE: 2001-06-18
PCT-US02-18947-670

Query Match 100.0%; Score 18; DB 1; Length 2625;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
|||||
Db 185 GCGCGCTGTGAACAGTA 168

RESULT 11
PCT-US93-03681-57/C
Sequence 57, Application PC/TUS9303681
GENERAL INFORMATION:

APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/03681
FILING DATE: 19930419
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/872,643
FILING DATE: 17 APR 1992
ATTORNEY/AGENT INFORMATION:
NAME: Noland, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31340

TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 2625 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
PCT-US93-03681-57

Query Match 100.0%; Score 18; DB 1; Length 2625;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
|||||
Db 185 GCGCGCTGTGAACAGTA 168

RESULT 12
US-09-053-375B-1424/C
Sequence 1424, Application US/09053375B
GENERAL INFORMATION:

APPLICANT: Chenchik, Alex
APPLICANT: Bibilashvili, Robert
TITLE OF INVENTION: Nucleic Acid Arrays
FILE REFERENCE: CLON-006
CURRENT APPLICATION NUMBER: US/09/053,375B
CURRENT FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 1543
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 1424
LENGTH: 2625
TYPE: DNA
ORGANISM: Homo sapiens
US-09-053-375B-1424

Query Match 100.0%; Score 18; DB 14; Length 2625;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
|||||
Db 185 GCGCGCTGTGAACAGTA 168

RESULT 13
US-09-403-441-1/C
Sequence 1, Application US/09403441
GENERAL INFORMATION:

APPLICANT: MacCallman, Colin D
APPLICANT: Stephenson, Mary D
TITLE OF INVENTION: Cadherin-11 as an Indicator of Viable Pregnancy.
FILE REFERENCE: 27866/34647
CURRENT APPLICATION NUMBER: US/09/403,441
CURRENT FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: PCT/CA98/00397
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: CA 2,203,718
PRIOR FILING DATE: 1997-04-25
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 2625
TYPE: DNA
ORGANISM: Homo sapiens
US-09-403-441-1

Query Match 100.0%; Score 18; DB 18; Length 2625;
Best Local Similarity 100.0%; Pred. No. 20;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 GCGGCTTGTAAACAGTA 18
|||||

Db 185 GCGGCTTGTAAACAGTA 168

RESULT 14

US-09-442-589B-797/c

; Sequence 797, Application US/09442589B

; GENERAL INFORMATION:

; APPLICANT: Chenchik, Alex

; APPLICANT: Lukashov, Matvey

; TITLE OF INVENTION: Human Cardiovascular Array

; FILE REFERENCE: CLON-006CIP10

; CURRENT APPLICATION NUMBER: US/09/442,589B

; PRIOR FILING DATE: 1999-11-17

; PRIOR FILING DATE: 1998-03-31

; NUMBER OF SEQ ID NOS: 1194

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 797

; LENGTH: 2625

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-442-589B-797

Query Match 100.0%; Score 18; DB 18; Length 2625;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 GCGGCTTGTAAACAGTA 18
|||||

Db 185 GCGGCTTGTAAACAGTA 168

RESULT 15

US-09-654-328-1/c

; Sequence 1, Application US/09654328

; GENERAL INFORMATION:

; APPLICANT: Brenner, Michael B.

; APPLICANT: Valencia, Xavier

; TITLE OF INVENTION: Methods and Compositions for Treatment

; FILE REFERENCE: B0801/7187/ERP/MAT

; CURRENT APPLICATION NUMBER: US/09/654,328

; PRIOR FILING DATE: 2000-09-01

; PRIOR APPLICATION NUMBER: US 60/152,456

; PRIOR FILING DATE: 1999-09-03

; PRIOR APPLICATION NUMBER: US 60/153,490

; PRIOR FILING DATE: 1999-09-13

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1

; LENGTH: 2625

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (156)...(2546)

US-09-654-328-1

Query Match 100.0%; Score 18; DB 25; Length 2625;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 GCGGCTTGTAAACAGTA 18
|||||

Db 185 GCGGCTTGTAAACAGTA 168

Search completed: June 22, 2003, 10:01:12
Job time : 2790 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 08:11:55 ; Search time 774 Seconds
(Without alignments)
161.805 Million cell updates/sec

Title: US-09-830-811-1

Perfect score: 18

Sequence: 1 ggcgcgttgtaacagta 18

Scoring table: IDENTITY-NUC

Gapop 10.0 , Gapext 1.0

Searched: 7816976 seqs, 3478802793 residues

15633952

Total number of hits satisfying chosen parameters:

15633952

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending-Patents_NA_New:*
1: /cgn2_6/p/ptodata/1/pna/US06_NEW_COMB.seq:*
2: /cgn2_6/p/ptodata/1/pna/US07_NEW_COMB.seq:*
3: /cgn2_6/p/ptodata/1/pna/US08_NEW_COMB.seq:*
4: /cgn2_6/p/ptodata/1/pna/US09_NEW_COMB.seq:*
5: /cgn2_6/p/ptodata/1/pna/US10_NEW_COMB.seq:*
6: /cgn2_6/p/ptodata/1/pna/US11_NEW_COMB.seq:*
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9: /cgn2_6/p/ptodata/1/pna/US14_NEW_COMB.seq:*
10: /cgn2_6/p/ptodata/1/pna/US15_NEW_COMB.seq:*
11: /cgn2_6/p/ptodata/1/pna/US16_NEW_COMB.seq:*
12: /cgn2_6/p/ptodata/1/pna/US17_NEW_COMB.seq:*
13: /cgn2_6/p/ptodata/1/pna/US18_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	201	US-60-455-444-34244	Sequence 34244, A
2	18	100.0	201	US-60-455-444-34245	Sequence 34245, A
3	18	100.0	201	US-60-455-444-34246	Sequence 34246, A
4	18	100.0	201	US-60-455-444-34256	Sequence 34256, A
5	18	100.0	201	US-60-455-444-34257	Sequence 34257, A
6	18	100.0	201	US-60-455-444-34258	Sequence 34258, A
7	18	100.0	201	US-60-455-444-34259	Sequence 34259, A
8	18	100.0	201	US-60-455-444-34260	Sequence 34260, A
9	18	100.0	201	US-60-455-444-34261	Sequence 34261, A
10	18	100.0	201	US-60-455-444-34262	Sequence 34262, A
11	18	100.0	201	US-60-455-444-34263	Sequence 34263, A
12	18	100.0	201	US-60-455-444-34264	Sequence 34264, A
13	18	100.0	201	US-60-455-444-34265	Sequence 34265, A
14	18	100.0	201	US-60-455-444-34266	Sequence 34266, A
15	18	100.0	201	US-60-455-444-34267	Sequence 34267, A
16	18	100.0	201	US-60-455-444-34268	Sequence 34268, A
17	18	100.0	201	US-60-455-444-34269	Sequence 34269, A
18	18	100.0	201	US-60-455-444-34270	Sequence 34270, A
19	18	100.0	201	US-60-455-444-34271	Sequence 34271, A
20	18	100.0	201	US-60-455-444-34272	Sequence 34272, A

c 21	18	100.0	201	US-60-465-241-172912	Sequence 172912, A
c 22	18	100.0	1026	US-09-724-676-6128	Sequence 6128, Ap
c 23	18	100.0	1026	US-09-724-676-6128	Sequence 6128, Ap
c 24	18	100.0	2080	US-10-170-235-9735	Sequence 9735, Ap
c 25	18	100.0	2080	US-60-455-444-2624	Sequence 2624, Ap
c 26	18	100.0	2080	US-60-455-444-2624	Sequence 2624, Ap
c 27	18	100.0	2625	US-10-342-887-670	Sequence 670, Ap
c 28	18	100.0	2625	US-10-342-887-670	Sequence 670, Ap
c 29	18	100.0	3210	US-09-724-676-6129	Sequence 6129, Ap
c 30	18	100.0	3210	US-09-724-676-6129	Sequence 6129, Ap
c 31	18	100.0	3661	PCT-US03-15711-151	Sequence 151, Ap
c 32	18	100.0	3661	US-10-440-464-151	Sequence 151, Ap
c 33	18	100.0	3661	US-10-440-464-151	Sequence 151, Ap
c 34	18	100.0	3691	US-10-170-235-9237	Sequence 9237, Ap
c 35	18	100.0	3691	US-60-455-444-2623	Sequence 2623, Ap
c 36	18	100.0	3691	US-60-455-444-2623	Sequence 2623, Ap
c 37	18	100.0	3867	PCT-US02-14597-22	Sequence 22, Ap
c 38	18	100.0	3867	PCT-US03-15711-152	Sequence 152, Ap
c 39	18	100.0	3867	US-10-440-464-152	Sequence 152, Ap
c 40	18	100.0	3867	US-10-240-425-1211	Sequence 1211, Ap
c 41	18	100.0	3867	US-10-101-510-485	Sequence 485, Ap
c 42	18	100.0	6536	US-10-170-235-10098	Sequence 10098, A
c 43	18	100.0	6536	US-60-455-444-2625	Sequence 2625, Ap
c 44	18	100.0	6536	US-60-455-444-2625	Sequence 2625, Ap
c 45	18	100.0	122184	US-60-465-241-52470	Sequence 52470, A

ALIGNMENTS

RESULT 1
US-60-455-444-34244/C
Sequence 34244, Application US/60455444
GENERAL INFORMATION:
APPLICANT: CARCILL, Michele
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: RHEUMATOID ARTHRITIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001455
CURRENT APPLICATION NUMBER: US/60/455,444
CURRENT FILING DATE: 2003-03-18
NUMBER OF SEQ ID NOS: 50986
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 34244
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
US-60-455-444-34244
Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 44 GGCgcgttgtaacagta 27
QY 1 GGCgcgttgtaacagta 18
|||||
Db 44 GGCgcgttgtaacagta 27
RESULT 2
US-60-455-444-34245/C
Sequence 34245, Application US/60455444
GENERAL INFORMATION:
APPLICANT: CARCILL, Michele
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: RHEUMATOID ARTHRITIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001455
CURRENT APPLICATION NUMBER: US/60/455,444
CURRENT FILING DATE: 2003-03-18
NUMBER OF SEQ ID NOS: 50986
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 34245
LENGTH: 201

```

; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34245

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 37 GCGCGCTTGTAAACAGTA 20

RESULT 3
US-60-455-444-34246/c
; Sequence 34246, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34246
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34246

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 32 GCGCGCTTGTAAACAGTA 15

RESULT 4
US-60-455-444-34256/c
; Sequence 34256, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34256
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34256

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 44 GCGCGCTTGTAAACAGTA 27

RESULT 5
US-60-455-444-34257/c
; Sequence 34257, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34257
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34257

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 37 GCGCGCTTGTAAACAGTA 20

RESULT 6
US-60-455-444-34258/c
; Sequence 34258, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34258
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34258

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 32 GCGCGCTTGTAAACAGTA 15

RESULT 7
US-60-455-444-34268/c
; Sequence 34268, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34268
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34268

Query Match
Best Local Similarity 100.0%; Score 18; DB 13; Length 201;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
   |||||
Db 32 GCGCGCTTGTAAACAGTA 15
```


Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 32 GCGCGCTTGTAAACAGTA 15

RESULT 8
US-60-455-444-34284/C

; Sequence 34284, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: BEGOVICH, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34284
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34284

Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 44 GCGCGCTTGTAAACAGTA 27

RESULT 9
US-60-455-444-34286/C

; Sequence 34286, Application US/60455444
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001455
; CURRENT APPLICATION NUMBER: US/60/455,444
; CURRENT FILING DATE: 2003-03-18
; NUMBER OF SEQ ID NOS: 50986
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34286
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-455-444-34286

Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 37 GCGCGCTTGTAAACAGTA 20

RESULT 10
US-60-465-241-34244/C

; Sequence 34244, Application US/60465241
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001468
; CURRENT APPLICATION NUMBER: US/60/465,241

; CURRENT FILING DATE: 2003-04-23
; NUMBER OF SEQ ID NOS: 258418
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34244
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-465-241-34244

Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 44 GCGCGCTTGTAAACAGTA 27

RESULT 11
US-60-465-241-34245/C

; Sequence 34245, Application US/60465241
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001468
; CURRENT APPLICATION NUMBER: US/60/465,241
; CURRENT FILING DATE: 2003-04-23
; NUMBER OF SEQ ID NOS: 258418
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34245
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-465-241-34245

Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 37 GCGCGCTTGTAAACAGTA 20

RESULT 12
US-60-465-241-34246/C

; Sequence 34246, Application US/60465241
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: BEGOVICH, Ann
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001468
; CURRENT APPLICATION NUMBER: US/60/465,241
; CURRENT FILING DATE: 2003-04-23
; NUMBER OF SEQ ID NOS: 258418
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34246
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-465-241-34246

Query Match 100.0%; Score 18; DB 13; Length 201;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTTGTAAACAGTA 18
Db 32 GCGCGCTTGTAAACAGTA 15

RESULT 13

US-60-465-241-34256/c
 ; Sequence 34256, Application US/60465241
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele
 ; APPLICANT: BEGOVICH, Ann
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; FILE REFERENCE: C1001468
 ; CURRENT APPLICATION NUMBER: US/60/465,241
 ; CURRENT FILING DATE: 2003-04-23
 ; NUMBER OF SEQ ID NOS: 258418
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 34256
 ; LENGTH: 201
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-60-465-241-34256

Query Match

100.0%; Score 18; DB 13; Length 201;
 Best Local Similarity 100.0%; Pred. No. 6.1;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCGCTGTAAACAGTA 18
 |||

DB 44 GCGGCGCTGTAAACAGTA 27

RESULT 14

US-60-465-241-34257/c
 ; Sequence 34257, Application US/60465241
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele
 ; APPLICANT: BEGOVICH, Ann
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; FILE REFERENCE: C1001468
 ; CURRENT APPLICATION NUMBER: US/60/465,241
 ; CURRENT FILING DATE: 2003-04-23
 ; NUMBER OF SEQ ID NOS: 258418
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 34257
 ; LENGTH: 201
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-60-465-241-34257

Query Match

100.0%; Score 18; DB 13; Length 201;
 Best Local Similarity 100.0%; Pred. No. 6.1;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCGCTGTAAACAGTA 18
 |||

DB 37 GCGGCGCTGTAAACAGTA 20

RESULT 15

US-60-465-241-34258/c
 ; Sequence 34258, Application US/60465241
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele
 ; APPLICANT: BEGOVICH, Ann
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; FILE REFERENCE: C1001468
 ; CURRENT APPLICATION NUMBER: US/60/465,241
 ; CURRENT FILING DATE: 2003-04-23
 ; NUMBER OF SEQ ID NOS: 258418
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 34258
 ; LENGTH: 201
 ; TYPE: DNA

ORGANISM: Homo sapiens
 US-60-465-241-34258

Query Match

100.0%; Score 18; DB 13; Length 201;
 Best Local Similarity 100.0%; Pred. No. 6.1;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGCGCTGTAAACAGTA 18
 |||

DB 32 GCGGCGCTGTAAACAGTA 15

Search completed: June 22, 2003, 10:14:19
 Job time : 776 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 08:06:05 ; Search time 1754 Seconds
(without alignments)
166.202 Million cell updates/sec

Title: US-09-830-811-1

Perfect score: 18
Sequence: 1 ggcgcgtctgaacagta 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

Database :

EST:*
1: em_estda:*
2: em_esthum:*
3: em_estlin:*
4: em_estlmu:*
5: em_estlov:*
6: em_estlpl:*
7: em_estro:*
8: em_hlc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hlc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_lmv:*
20: em_gss_pln:*
21: em_gss_vtl:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	ID	Description
1	18	100.0	579	AL708659
2	18	100.0	585	BF194811
3	18	100.0	943	AU133055
4	18	100.0	960	AU132966
5	18	100.0	964	BF337900
6	17	94.4	239	AA091280

7	16.4	91.1	384	10	AM125499	AM125499 UT-M-BH2.
8	16.4	91.1	451	9	AT465790	AT465790 v9g7g05.y
9	16.4	91.1	453	12	BG802493	BG802493 0181-71.M
10	16.4	91.1	455	10	BB854489	BB854489 BB854489
11	16.4	91.1	479	10	BB854982	BB854982 BB854982
12	16.4	91.1	498	9	AI391334	AI391334 mb72g07.y
13	16.4	91.1	501	9	AA839644	AA839644 v9g7g05.x
14	16.4	91.1	509	14	BM934786	BM934786 UT-M-BH2.
15	16.4	91.1	539	12	BF464496	BF464496 UT-M-CGDP
16	16.4	91.1	566	10	AM568982	AM568982 EST318605
17	16.4	91.1	569	9	AI118833	AI118833 uc14c12.x
18	16.4	91.1	569	10	BB650583	BB650583 BB650583
19	16.4	91.1	600	12	BG800007	BG800007 2111-53.M
20	16.4	91.1	600	12	BG808443	BG808443 2091-94.M
21	16.4	91.1	601	10	BB652650	BB652650 BB652650
22	16.4	91.1	620	10	AM822684	AM822684 uc17a02.y
23	16.4	91.1	623	10	BB619131	BB619131 BB619131
24	16.4	91.1	642	10	BB660181	BB660181 BB660181
25	16.4	91.1	645	10	BB656306	BB656306 BB656306
26	16.4	91.1	650	10	AM210019	AM210019 u150a04.y
27	16.4	91.1	656	10	BB627470	BB627470 BB627470
28	16.4	91.1	656	13	BI558800	BI558800 603241032
29	16.4	91.1	659	10	BB622135	BB622135 BB622135
30	16.4	91.1	681	10	AM209556	AM209556 u144d05.y
31	16.4	91.1	681	10	BB642928	BB642928 BB642928
32	16.4	91.1	689	10	BE198426	BE198426 ug78d12.y
33	16.4	91.1	706	10	BE198551	BE198551 ug79h05.y
34	16.4	91.1	760	17	BH726531	BH726531 BOMOI407R
35	16.4	91.1	776	13	BI734469	BI734469 603353919
36	16.4	91.1	797	12	BF234442	BF234442 602028235
37	16.4	91.1	801	9	AU080267	AU080267 AU080267
38	16.4	91.1	834	13	BI689448	BI689448 603315308
39	16.4	91.1	844	14	BQ143991	BQ143991 NF018A11D
40	16.4	91.1	907	14	BQ891796	BQ891796 AGENCOURT
41	16.4	91.1	926	12	BF179053	BF179053 601806781
42	16.4	91.1	952	11	AK012880	AK012880 Mus muscu
43	16.4	91.1	970	14	BO712732	BO712732 AGENCOURT
44	16.4	91.1	1159	14	BQ930532	BQ930532 AGENCOURT
45	16.4	91.1	1308	11	AK009182	AK009182 Mus muscu

ALIGNMENTS

RESULT 1
LOCUS AL708659 579 bp mRNA linear EST 22-MAR-2002
DEFINITION DKF2p686K1153_r1 686 (synonym: hlc3) Homo sapiens cDNA clone
DKEF2p686K1153 5', mRNA sequence.

ACCESSION AL708659
VERSION AL708659.1 GI:19692014
KEYWORDS EST.

SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 579)

AUTHORS Wambutt,R., Heubner,D., Mewes,W., Well,B. and Wiemann,S.
TITLE EST (Wambutt,R., Heubner,D., Mewes,H.W., Well,B. and Wiemann,S.)
JOURNAL Unpublished (1999)

COMMENT Contact: Wambutt R

MIPS
Am Klopferplatz 18a D-82152 Martinsried, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de;
sequenced by AGOMA (Berlin/Germany) within the cDNA sequencing
consortium of the German Genome Project.

No sl sequence available.
This clone (DKF2p686K1153) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES Location/Qualifiers

Query Match	100.0%	Score 18;	DB 9;	Length 579;
Best Local Similarity	100.0%	Pred. No. 29;		
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

RESULT 2	LOCUS	DEFINITION	VERSION	KEYWORDS	SOURCE
BF194811/c	BF194811	7093b03.x1 NCI-CGAP Ov18 Homo sapiens CDNA clone IMAGE:3544020 3'	BF194811	similar to TR:Q15066 Q15066 OB-CADHERIN-2. mRNA sequence.	human.
		585 bp		EST 03-NOV-2000	

ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
Homo sapiens					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi					
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
1 (bases 1 to 585)					
NCI-CCGAP	http://www.ncbi.nlm.nih.gov/ncicgap				
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),					
Tumor Gene Index					
Unpublished (1997)					
Contact: Robert Strausberg					
Ph.D.					

Email: cgapbs-remail.nih.gov
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Christa Prange, The I.M.A.G.E. Consortium DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL, send email to: info@image.llnl.gov
 High quality sequence stop: 508.

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Source
Location/Qualifiers
1. 585
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="IMAGE:3644020"
/clone_id="NCI CGAP OV18"
/tissue_type="fibrosarcoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: ovary; Vector: p773D-Pac (Pharmacia) with a modified polylinker. Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with: Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGAGGCGCGCCGACATATTTTATTTTATTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p773 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
118 a 167 c 193 g 107 t

```

Query Match	100.0%	Score 18;	DB 12;	Length 585;
Best Local Similarity	100.0%	Pred. NO. 29;		
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

RESULT 3	LOCUS	DEFINITION
AI133055/c	AI133055	943 bp mRNA
	AI133055	1 linear EST 01-AUG-2002
	MT2RP4	Homo sapiens CDNA clone MT2RP400111 5', mRNA sequence.

ACCESSION	AU133055
VERSION	AU133055.1
KEYWORDS	GI:10993594
SOURCE	EST.
ORGANISM	human, Homo sapiens

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo. 1 (Bases 1 to 943)	Ota, T., Sugiyama, T., Ishii, S., Suzuki, Y., Saito, K., Yamamoto, J., Nishikawa, T., Nakamura, T., Nagai, T., Sugano, S., Masuno, Y. and Isogai, T.	HRI human CDNA project (Ota, T., Sugiyama, T., Ishii, S., Suzuki, Y., Saito, K., Yamamoto, J., Nishikawa, T., Nakamura, T., Nagai, T., Sugano, S., Masuno, Y., Isogai, T.)	Unpublished (2000).	Contact: Takao Isogai

Genomics Laboratory
Helix Research Institute
1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
Tel.: 81-438-52-3975
Fax: 81-438-52-3986
Email: genomics@hri.co.jp
HRI human cDNA project: 5'- & 3'-end one pass sequencing: Helix
Research Institute; cDNA library construction: Helix
Virology, Institute of Medical Science, University of Tokyo, and
Helix Research Institute.
Location/Qualifiers
1..943
source

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="NT2RP4001171"
/clone_id="NT2RP4"
/cell_type="teratocarcinoma"
/cell_line="NT2"
/vector="Vector: pME18SFL3, mRNA from NT2 neuronal precursor
cells after 2-weeks retinoic acid (RA) induction"
BASE COUNT
211 a 250 c 295 g 182 t
ORIGIN
5 others

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Query Match	100.0%	Score 18:	DB 9:	Length 943;
Best Local Similarity	100.0%	Pred. No. 35;		
Matches 18:	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
1	GGCGGCTGTAAACAGTA	18		
509	GGCGGCTGTAAACAGTA	492		

Accession	Result 4	LOCUS	Definition
AF132966	960 bp	mRNA	linear EST 01-AUG-2002
AF132966	NT2RP4	Homo sapiens	CDNA clone NT2RP400986 5', mRNA sequence.

ACCESSION	AU132966	
VERSION	AU132966.1	GI:10993505
KEYWORDS	EST	

ORGANISM Homo sapiens

REFERENCE
Ota, T., Sugiyama, T., Ishii, S., Suzuki, Y., Sakto, K.
AUTHORS

TITLE Nishikawa, T., Nakamura, Y., Nagai, T., Sugano, S., Masuho, Y. and Isogai, T.
 HRI human cDNA project (Ota, T., Sugiyama, T., Ishii, S., Suzuki, Y., Saito, K., Yamamoto, J., Nishikawa, T., Nakamura, Y., Nagai, T., Sugano, S., Masuho, Y., Isogai, T.)
 JOURNAL Unpublished (2000)
 COMMENT Contact: Takao Isogai
 Genomics Laboratory
 Helix Research Institute
 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: genomics@hri.co.jp
 HRI human cDNA project, 5'-63'-end one pass sequencing: Helix Research Institute; cDNA library construction: Department of Virology, Institute of Medical Science, University of Tokyo, and Helix Research Institute.

FEATURES
 source 1..960
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_lib="NT2RP400986"
 /clone_lib="NT2RP4"
 /cell_type="teratocarcinoma"
 /cell_line="NT2"
 /note="Vector: pME18SFL3; mRNA from NT2 neuronal precursor cells after 2-weeks retinoic acid (RA) induction."

BASE COUNT 222 a. 249 c 292 g 190 t
 ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 960;
 Best local Similarity 100.0%; Pred. No. 35;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTAAACAGTA 18
 ||||||||||||||||
 Db 467 GCGCGCTGTAAACAGTA 450

RESULT 5
 BE337900/c 964 bp mRNA linear EST 22-NOV-2000
 LOCUS 602035724F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4183901
 DEFINITION 5', mRNA sequence.
 ACCESSION BE337900
 VERSION BE337900.1 GI:11284275
 KEYWORDS EST.

SOURCE
 ORGANISM Homo sapiens
 human.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 964)
 NIH-MGC http://mgi.nci.nih.gov/.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs@emil.nih.gov
 Tissue Procurement: David N. Louis, M.D.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
 http://image.llnl.gov
 Plate: L1AM9500 row: 0 column: 06
 High quality sequence stop: 672.
 Location/Qualifiers

FEATURES
 source 1..964
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:4183901"
 /clone_lib="NCI_CGAP_Brn64"
 /tissue_type="glioblastoma with EGFR amplification"

/lab_host="DH10B (T1 phage-resistant)"
 /note="Organ: brain; Vector: pCMV-Sport6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.57 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."
 BASE COUNT 259 a 252 c 295 g 158 t
 ORIGIN

Query Match 100.0%; Score 18; DB 12; Length 964;
 Best local Similarity 100.0%; Pred. No. 35;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTAAACAGTA 18
 ||||||||||||||||
 Db 206 GCGCGCTGTAAACAGTA 189

RESULT 6
 AA091280 239 bp mRNA linear EST 24-OCT-1996
 LOCUS cch2408.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens
 DEFINITION CDNA 5', mRNA sequence.
 ACCESSION AA091280
 VERSION AA091280.1 GI:1635864
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 239)
 Liew, C.C.
 CDNAs from fetal heart (1996)
 JOURNAL Unpublished (1996)
 COMMENT Contact: Liew CC
 Brigham and Women's Hospital
 Harvard Medical School
 75 Francis St. Boston, MA 02115, USA
 Tel: 617/7328915
 Fax: 617/9730995
 Email: cllawerics.bwh.harvard.edu
 PCR Primers
 FORWARD: 5' GCCAGCTCGAATTAACCTCAGTAAGG 3'
 BACKWARD: 5' CCAGTGATGTAAACGACCTCAGTAAGG 3'
 Seq primer: 5' GAATTAACCTCAGTAAGG 3'.
 Location/Qualifiers

FEATURES
 source 1..239
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_lib="Human fetal heart, Lambda ZAP Express"
 /lab_host="E. coli XL1-Blue"
 /note="Vector: Lambda ZAP Express; Site_1: EcoRI; Site_2: XhoI; mRNA was purified from human fetal hearts (8-10 weeks). CDNA was synthesized using a XhoI-Oligo dt adapter-primer. EcoRI adapters were ligated, followed by digestion with XhoI, for directional cloning into predigested Lambda ZAP Express."

BASE COUNT 87 a 45 c 63 g 44 t
 ORIGIN

Query Match 94.4%; Score 17; DB 9; Length 239;
 Best local Similarity 100.0%; Pred. No. 74;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGTAAACAGT 17
 ||||||||||||||||
 Db 162 GCGCGCTGTAAACAGT 178

RESULT 7
 AW125499 384 bp mRNA linear EST 22-OCT-1999
 LOCUS UI-M-BH2.2-2-qm-d-12-0-UI.s1 NIH_BMP_M.S3.2 Mus musculus cDNA clone
 DEFINITION UI-M-BH2.2-2-qm-d-12-0-UI 3', mRNA sequence.

ACCESSION B6802493 GI:17949382
 VERSION B6802493.1
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 453)
 REFERENCE Mu, X., Zhao, S., Pershad, R., Hsieh, T.-F., Scarpa, A., Wang, S.W., White, R.A., Beremand, P.D., Thomas, T.L., Gan, L. and Klein, W.H. Gene expression in the developing mouse retina by EST sequencing and microarray analysis
 Nucleic Acids Res. 29 (24), 4983-4993 (2001)
 21671825
 JOURNAL Contact: Klein WH
 MEDLINE Department of Biochemistry and Molecular Biology
 COMMENT University of Texas M.D. Anderson Cancer Center
 Box 117, 1515 Holcombe Blvd., Houston, TX 77030, USA
 Tel: 713 792 3646
 Fax: 713 790 0329.

FEATURES
 source Location/Qualifiers
 1..453
 /organism="Mus musculus"
 /db_xref="taxon:10090"
 /clone_lib="Mouse E14.5 retina lambda zap II library"
 /tissue_type="neural retina"
 /dev_stage="embryonic day 14.5 post-fertilization"
 /note="Vector: pAMP10 (Gibco); Cloned unidirectionally. Primer: Oligo dt. RNA isolation: cytoplasmic RNA prep (Mannatis); Cloning technique: CVA Cloning (Clontech), Life Technologies; Average insert size: 1.8 Kb; Insertion site: TACGCCAGTTCGAGTGCAGTGC--> Other information regarding entire library may be found at http://pga.smed.edu/Data/Libraries/microarray_cdna_library.htm."

BASE COUNT 115 a 108 c 134 g 96 t
 ORIGIN

Query Match 91.1%; Score 16.4; DB 12; Length 453;
 Best Local Similarity 94.4%; Pred. No. 2.1e+02;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
 ||| ||||| ||||| |||||
 Db 265 GCGCGCTGTGAACAGTA 248

RESULT 10
 LOCUS BB854489 455 bp mRNA linear EST 26-NOV-2001
 DEFINITION BB854489 RIKEN full-length enriched, B16 F10Y cells Mus musculus
 CDNA clone G370019H17 5', mRNA sequence.
 ACCESSION BB854489
 VERSION BB854489
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 455)
 REFERENCE Akimura, T., Arakawa, T., Carninci, P., Furuno, M., Hanagaki, T., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Imotani, K., Ishii, Y., Ito, M., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Matsuyama, T., Nakamura, M., Nishi, K., Nomura, K., Numasaki, R., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Tanaka, T., Tomaru, A., Toya, T., Wachihi, A., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y. RIKEN Encyclopedia of Mouse Full-length cDNAs (Akimura, T., et al. 2001)
 JOURNAL Unpublished (2001)
 COMMENT Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic

Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
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 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@sc.riken.go.jp/
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
 Wachihi, K., Fujiwara, S., Inoue, K., Togawa, Y., Itawa, M., Ohara, E., Wachihi, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multiplexillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
 Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y. and Hayashizaki, Y.
 Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
 Please visit our web site (<http://genome.gsc.riken.go.jp>) for further details.
 e mouse tissues.

FEATURES
 source Location/Qualifiers
 1..455
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_lib="G370019H17"
 /clone_lib="RIKEN full-length enriched, B16 F10Y cells"
 /cell_type="B16 F10Y cells"
 /note="Pooled tissues; (tissue_type=cerebellum, dev_stage=0 day neonate, sex=mixed), (tissue_type=cerebellum, dev_stage=16 days neonate, sex=mixed), (tissue_type=hippocampus, dev_stage=adult, sex=male), (tissue_type=whole body, dev_stage=9 days embryo, sex=mixed), (tissue_type=lung, dev_stage=13 days embryo, sex=mixed)";
 BASE COUNT 106 a 102 c 160 g 87 t
 ORIGIN

Query Match 91.1%; Score 16.4; DB 10; Length 455;
 Best Local Similarity 94.4%; Pred. No. 2.1e+02;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTGTGAACAGTA 18
 ||| ||||| ||||| |||||
 Db 410 GCGCGCTGTGAACAGTA 393

RESULT 11
 LOCUS BB854982 479 bp mRNA linear EST 26-NOV-2001
 DEFINITION BB854982 RIKEN full-length enriched, B16 F10Y cells Mus musculus
 CDNA clone G370022B05 5', mRNA sequence.
 ACCESSION BB854982
 VERSION BB854982
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 479)
 REFERENCE Akimura, T., Arakawa, T., Carninci, P., Furuno, M., Hanagaki, T., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Imotani, K., Ishii, Y., Ito, M., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Matsuyama, T., Nakamura, M., Nishi, K., Nomura, K., Numasaki, R., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa

TITLE
A., Takahashi, F., Takaku-Akahira, S., Tanaka, T., Tomaru, A., Toya, T.,
Matshiki, A., Yasunishi, A., Muramatsu, M., and Hayashizaki, Y.
Riken Encyclopedia of Mouse Full-length cDNAs (Akimura, T., et al.
2001)

JOURNAL
Unpublished (2001)

COMMENT
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Fax: 81-45-503-9216
Email: genome-res@sc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh
M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)
Wagil, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,
Matahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura
S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and
Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multipillar sequencer. Genome Res.
10 (11), 1757-1771 (2000)
Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara
Y., and Hayashizaki, Y.
Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
Please visit our web site (http://genome.gsc.riken.go.jp) for
further details.
e mouse tissues.

FEATURES

source
1. .479
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="G370022B05"
/clone_lib="RIKEN full-length enriched, B16 F10Y cells"
/cell_type="B16 F10Y cells"
/note="pooled tissues; (tissue_type=cerebellum,
dev_stage=16 days neonate, sex=mixed),
(tissue_type=cerebellum, dev_stage=0 day neonate,
sex=mixed), (tissue_type=hippocampus, dev_stage=adult,
sex=adult), (tissue_type=whole body, dev_stage=9 days
embryo, sex=mixed), (tissue_type=lung, dev_stage=13 days
embryo, sex=mixed)"
BASE COUNT 135 a 98 c 145 g 101 t
ORIGIN

Query Match 91.1%; Score 16.4; DB 10; Length 479;
Best Local Similarity 94.4%; Pred. No. 2.1e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCGCTGTAAACAGTA 18
|||||
Db 323 GGCGCTGTAAACAGTA 306

RESULT 12
AI391334/c 498 bp mRNA linear EST 15-MAR-2000
LOCUS mb72907.Y1 Soares mouse p3NMF19.5 Mus musculus cDNA clone
DEFINITION IMAGE:335004.5' similar to gb:U75757 M.musculus caddL mRNA (MUSE);,
mRNA sequence.
ACCESSION AI391334
VERSION AI391334.1 GI:4217341
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE
1 (bases 1 to 498)
Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

AUTHORS

Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,
Underwood, K., Stepien, M., Theising, B., Allen, M., Bowers, Y., Person
B., Swaller, T., Gibbons, M., Page, D., Harvey, N., Schurk, R., Riller
E., Kohn, S., Slin, T., Jackson, Y., Cardenas, M., McCann, R.,
Westerlun, R. and Wilson, R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1600
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LML; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
This read is a RESEQUENCE of a previously sequenced mouse clone
this read has been verified (found to hit its original self in the
correct orientation)
MGI:216404
Seq primer: -40RP from Gibco
High quality sequence stop: 481
POLYA=NC.

JOURNAL

COMMENT

FEATURES

source

1. .498
Location/Qualifiers
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:335004"
/clone_lib="Soares mouse p3NMF19.5"
/dev_stage="19.5 dpc total fetus"
/lab_host="PH108 (ampicillin resistant)"
/note="Vector: pT73D (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer (5'
TCTTACCACTGAGAGCGAGCGCGCCATTTTTTTTTTTT 3'),
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library went through one round of
normalization to a Col - 5. Library constructed by Bento
Soares and M.Fatima Bonaldo. RNA was kindly provided by
Dr. Minoru Ko (Wayne State University)."
BASE COUNT 123 a 110 c 160 g 105 t
ORIGIN

Query Match 91.1%; Score 16.4; DB 9; Length 498;
Best Local Similarity 94.4%; Pred. No. 2.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCGCTGTAAACAGTA 18
|||||
Db 324 GGCGCTGTAAACAGTA 307

RESULT 13
AA839644 501 bp mRNA linear EST 27-FEB-1998
LOCUS vv97905.r1 Soares thymus_2nbwt Mus musculus cDNA clone
DEFINITION IMAGE:1262936.5' similar to gb:D31963 Mouse mRNA for cadherin-11
(MUSE);, mRNA sequence.
ACCESSION AA839644
VERSION AA839644.1 GI:2915739
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

1 (bases 1 to 501)
Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Marra, M., Hillier, L., Allen, M., Bowers, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Stepien, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and

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20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890

Email: MEST@mail.nih.gov

Oligo-dt track not found, Not I site shown in beginning of sequence
is likely internal to the message. cDNA library Preparation: M.B.
Soares Lab Clone distribution: Researchers may obtain BMAP cDNA
clones from RESEARCH GENETICS. It should be noted that Bento Soares
is generating a small number of additional specialized
non-redundant arrays of BMAP cDNAs whose availability will be
considered under appropriate and limited collaborative arrangements
Seq primer: M13 forward
POLYA-No.

FEATURES

SOURCE

Location/Qualifiers

1.539
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UI-M-CGP-Dpz-c-07-0-UI"
/clone_1lb="NIH BMAP Ret4.S2"
/lab_host="DH10B (Life Technologies)"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; The
NIH BMAP Ret4.S2 library is a subtracted library,
ultimately derived from mouse retina tissue libraries at
various stages of development. For a detailed description
of the library from which this clone was derived, please
visit our web site at brainest.eng.uiowa.edu. The tissue
for this library was contributed by Dr. Xin-Yuan Fu, Yale
University School of Medicine
TAG_SEQ=None found"

BASE COUNT 121 a 158 c 124 g 136 t

ORIGIN

Query Match

Best Local Similarity 91.1%; Score 16.4; DB 12; Length 539;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCTGTAAACAGTA 18
||| ||||| ||||| |||||

Db 295 GCGCGCTGTAAACAGTA 312

Search completed: June 22, 2003, 09:13:30
Job time : 1761 secs